STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 189685

TO: Alton Pryor **Location: REM 4A59/4C70** **Art Unit: 1616** **May 11, 2006** **Case Serial Number: 10/510083**	**From: P. Sheppard** **Location: Remsen Building** **Phone: (571) 272-2529** **sheppard@uspto.gov**

Search Notes

FOR OFFICIAL USE ONLY

ACCESS DB # _____

PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Alton Pryor Examiner #: 74458 Date: 4/24/06

Art Unit: 1616 Phone Number: 2-0621 Serial Number: 10/516,083

Location (Bldg/Room#): Rm 4A39 (Mailbox #): 4B FL Results Format Preferred (circle): PAPER DISK

****

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Date: _____

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only ***Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.***

Search compds of formula I in claim 1

```
=> d his ful

     (FILE 'HOME' ENTERED AT 14:44:45 ON 11 MAY 2006)

     FILE 'REGISTRY' ENTERED AT 14:46:47 ON 11 MAY 2006
L1             STR
L11       147655 SEA SSS FUL L1
L12            STR
L13            STR
L14            STR
L15            STR
L16        38403 SEA SUB=L11 SSS FUL L12
L17         8445 SEA SUB=L11 SSS FUL L13
L18        13078 SEA SUB=L11 SSS FUL L14
L19         3456 SEA SUB=L11 SSS FUL L15
L20        60852 SEA ABB=ON  PLU=ON  L16 OR L17 OR L18 OR L19
L21            STR
L22        57947 SEA SUB=L20 SSS FUL L21
L23            STR
L24         1581 SEA SUB=L20 SSS FUL L23

     FILE 'HCAPLUS' ENTERED AT 15:17:40 ON 11 MAY 2006
L25         1344 SEA ABB=ON  PLU=ON  L24
L26         1156 SEA ABB=ON  PLU=ON  L25 AND PD=<MAY 3, 2002
L27       104130 SEA ABB=ON  PLU=ON  ("FUNGICIDES (L) AGROCHEM."/CV OR "FUNGICID
                 ES AND FUNGISTATS (L) AGROCHEM."/CV OR "AGRICULTURAL FUNGICIDES
                 "/CV OR "AGROCHEM. FUNGICIDES"/CV OR "AGROCHEMICAL FUNGICIDES"/
                 CV) OR ?FUNGICID?
L28           23 SEA ABB=ON  PLU=ON  L25(L)L27
L29           17 SEA ABB=ON  PLU=ON  L26 AND L28
                 D STAT QUE
                 D IBIB ABS HITSTR L29 1-17

     FILE 'REGISTRY' ENTERED AT 15:18:30 ON 11 MAY 2006
L30         1043 SEA ABB=ON  PLU=ON  SURFACT? OR DILUENT?

     FILE 'HCAPLUS' ENTERED AT 15:19:27 ON 11 MAY 2006
L31       342901 SEA ABB=ON  PLU=ON  L30 OR SURFACT? OR DILUENT?
L32           25 SEA ABB=ON  PLU=ON  L31 AND L26
L33           25 SEA ABB=ON  PLU=ON  L32 NOT L29
                 D STAT QUE L33
                 D IBIB ABS HITSTR L33 1-25

     FILE 'REGISTRY' ENTERED AT 15:21:33 ON 11 MAY 2006
L34        56366 SEA ABB=ON  PLU=ON  L22 NOT L24

     FILE 'HCAPLUS' ENTERED AT 15:22:10 ON 11 MAY 2006
L35         9951 SEA ABB=ON  PLU=ON  L34
L36         8551 SEA ABB=ON  PLU=ON  (L35 AND PD=<MAY 3, 2002) NOT (L29 OR L33)

L37         2241 SEA ABB=ON  PLU=ON  L36 AND L27
L38           31 SEA ABB=ON  PLU=ON  L37 AND L31
                 D STAT QUE L38
                 D IBIB ABS HITSTR L38 1-31
L39           50 SEA ABB=ON  PLU=ON  TSENG C/AU OR TSENG C P/AU OR "TSENG CHI
                 PING"/AU
L40           61 SEA ABB=ON  PLU=ON  L39 OR "CHI PING"/AU
L41            2 SEA ABB=ON  PLU=ON  L40 AND (L25 OR L35)
L42            2 SEA ABB=ON  PLU=ON  L41 NOT (L29 OR L33)
                 D STAT QUE NOS
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D IBIB ABS HITSTR L42 1-2

FILE HOME

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 MAY 2006 HIGHEST RN 883788-13-4
DICTIONARY FILE UPDATES: 10 MAY 2006 HIGHEST RN 883788-13-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

FILE COVERS 1907 - 11 May 2006 VOL 144 ISS 20
FILE LAST UPDATED: 10 May 2006 (20060510/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

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=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 15:17:40 ON 11 MAY 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE COVERS 1907 - 11 May 2006  VOL 144 ISS 20
FILE LAST UPDATED: 10 May 2006  (20060510/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=>
=>

=> d stat que
L1              STR
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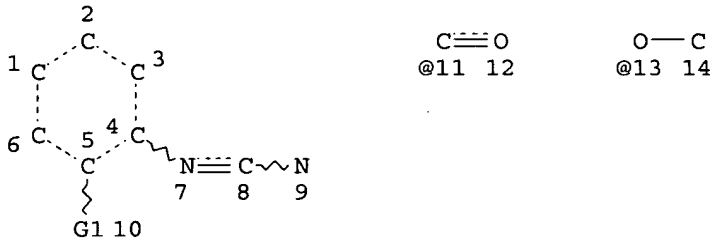


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DEFAULT MLEVEL IS ATOM
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GRAPH ATTRIBUTES:
RSPEC   1
NUMBER OF NODES IS  14

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L12             STR
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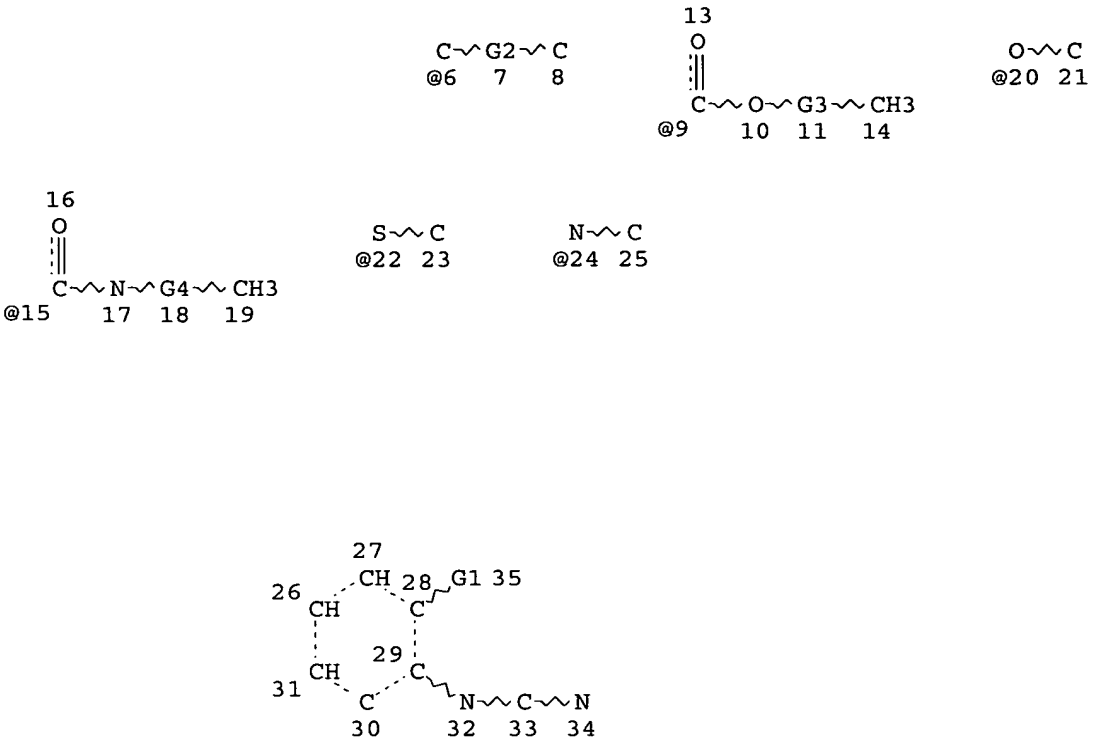

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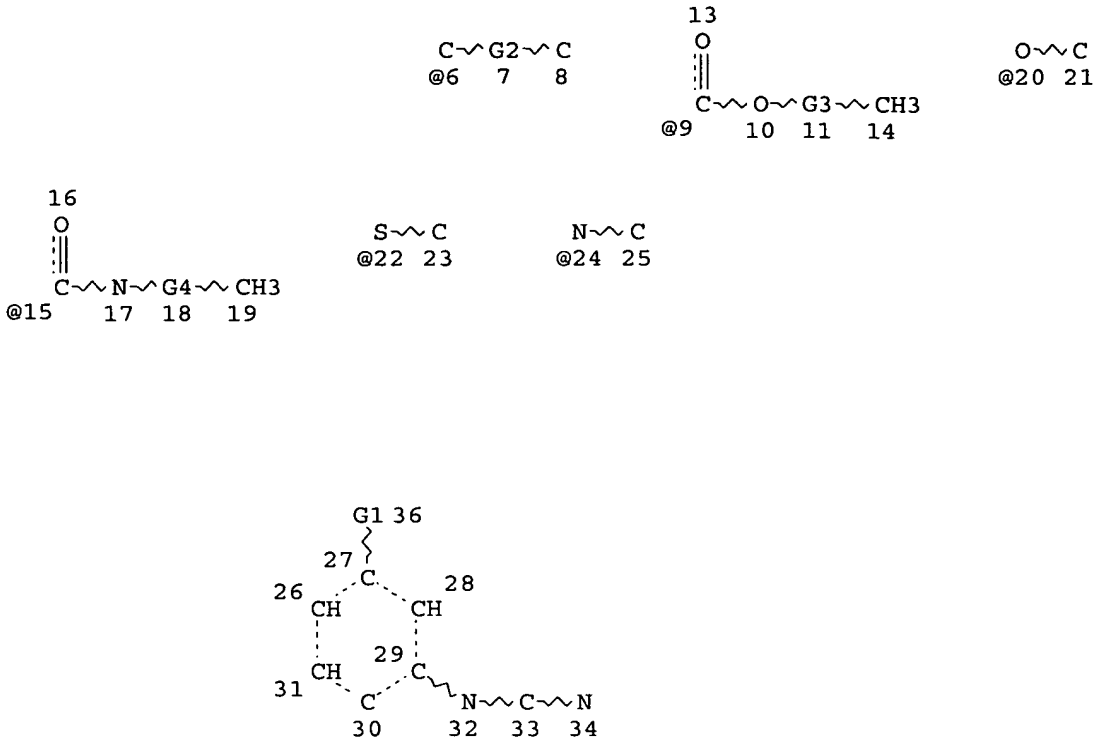
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L13 STR



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REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC   IS RC     AT  34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  29

STEREO ATTRIBUTES: NONE
L14             STR
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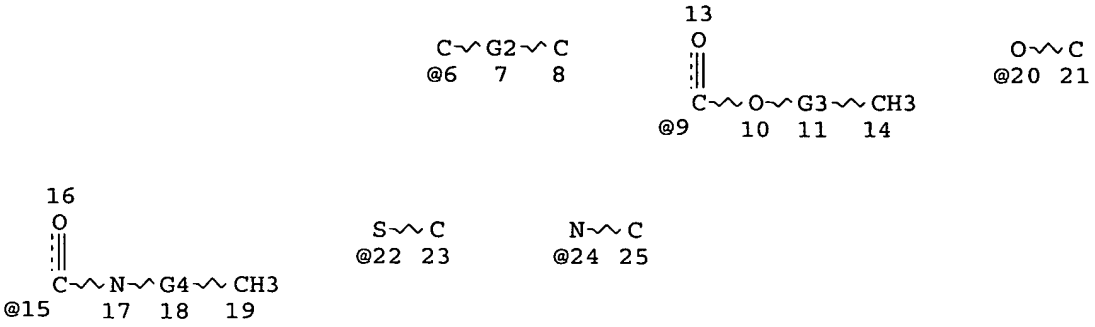

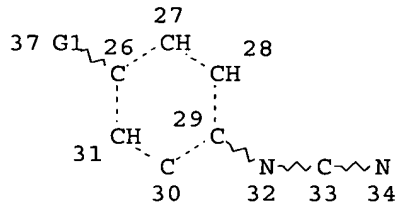

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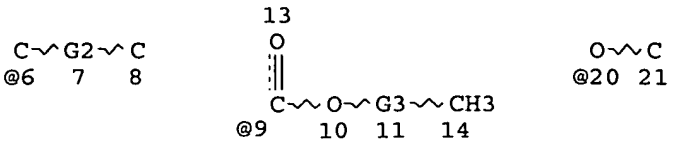
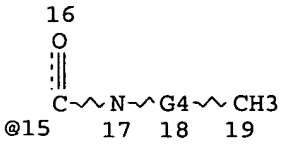
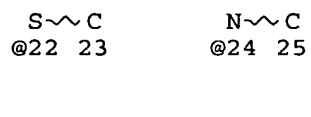
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

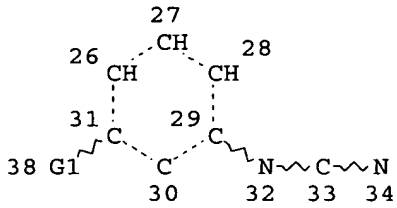
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L15 STR









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REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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L17 8445 SEA FILE=REGISTRY SUB=L11 SSS FUL L13
L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14
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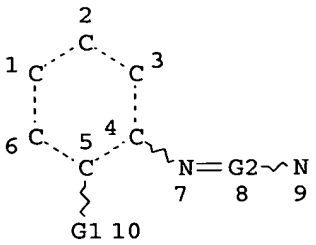
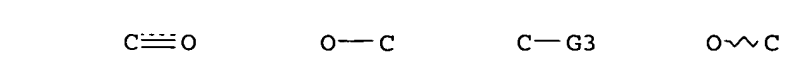
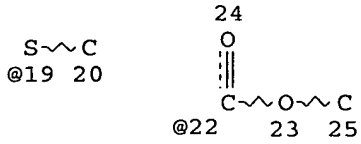
L20 60852 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L17 OR L18 OR L19
L23 STR





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NSPEC   IS RC     AT   9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC   1
NUMBER OF NODES IS  24

STEREO ATTRIBUTES: NONE
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L25         1344 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24
L26         1156 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 AND PD=<MAY 3, 2002
L27       104130 SEA FILE=HCAPLUS ABB=ON  PLU=ON  ("FUNGICIDES (L) AGROCHEM."/CV
                  OR "FUNGICIDES AND FUNGISTATS (L) AGROCHEM."/CV OR "AGRICULTUR
                 AL FUNGICIDES"/CV OR "AGROCHEM. FUNGICIDES"/CV OR "AGROCHEMICAL
                  FUNGICIDES"/CV) OR ?FUNGICID?
L28           23 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25(L)L27
L29           17 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L26 AND L28


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=>

=> d ibib abs hitstr l29 1-17

L29  ANSWER 1 OF 17  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2000:553541  HCAPLUS
DOCUMENT NUMBER:          133:163952
TITLE:                    Preparation of N2-phenylamidines as fungicides
INVENTOR(S):              Charles, Mark David; Franke, Wilfried; Green, David
                          Eric; Hough, Thomas Lawley; Mitchell, Dale Robert;
                          Simpson, Donald James; Atherall, John Frederick
PATENT ASSIGNEE(S):       Hoechst Schering Agrevo G.m.b.H., Germany
SOURCE:                   PCT Int. Appl., 76 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
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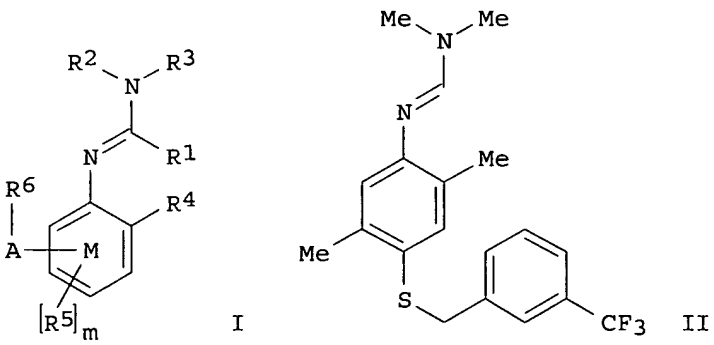
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 2000046184	A1	20000810	WO 2000-GB345	20000204	<--
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
CA 2360943	AA	20000810	CA 2000-2360943	20000204	<--
CA 2360943	C	20060418			
EP 1150944	A1	20011107	EP 2000-901791	20000204	<--
EP 1150944	B1	20030820			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
TR 200102237	T2	20011221	TR 2001-200102237	20000204	<--
BR 2000009314	A	20020213	BR 2000-9314	20000204	<--
JP 2002536354	T2	20021029	JP 2000-597256	20000204	
AT 247629	E	20030915	AT 2000-901791	20000204	
AU 768156	B2	20031204	AU 2000-23088	20000204	
PT 1150944	T	20031231	PT 2000-901791	20000204	
ES 2200816	T3	20040316	ES 2000-901791	20000204	
RU 2234504	C2	20040820	RU 2001-124664	20000204	
US 6893650	B1	20050517	US 2001-890775	20000204	
ZA 2001005845	A	20021016	ZA 2001-5845	20010716	
HK 1043358	A1	20050506	HK 2002-105179	20020712	
PRIORITY APPLN. INFO.:			GB 1999-2592	A 19990206	
			WO 2000-GB345	W 20000204	

OTHER SOURCE(S): MARPAT 133:163952
GI

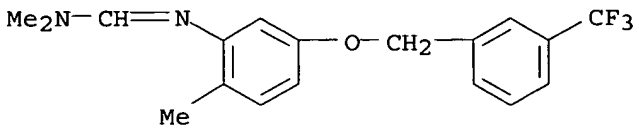


AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepared E.g., a 3-step preparation of the formamidine II which showed moderate to total control against Erysiphe graminis f. sp. Tritici at 500 ppm (w/v) or less, was given.

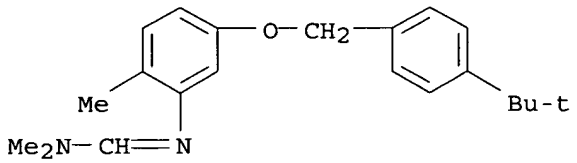
IT **287942-08-9P 287942-09-0P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N2-phenylamidines as **fungicides**)

RN 287942-08-9 HCAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-5-[[3-(trifluoromethyl)phenyl]methoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 287942-09-0 HCAPLUS
CN Methanimidamide, N'-[5-[[4-(1,1-dimethylethyl)phenyl]methoxy]-2-methylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:624266 HCAPLUS
DOCUMENT NUMBER: 121:224266
TITLE: Toxicity of mixtures of several miticides and plant nutrient supplement with fungicide triforine against kanzawa spider mite
AUTHOR(S): Wang, W. J.; Liu, T. S.
CORPORATE SOURCE: Taichung District Agricultural Improvement Station, Changhua, Taiwan
SOURCE: Zhiwu Baohu Xuehui Huikan (**1993**), 35(4), 285-95
CODEN: PLPBBH; ISSN: 0577-750X
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

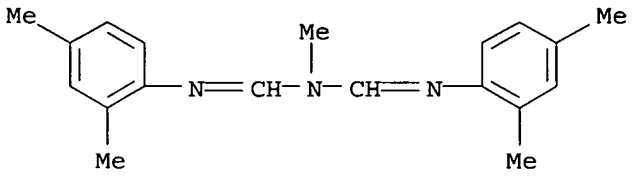
AB This experiment first tested in the laboratory the effectiveness of mixts. of fungicide 18.6% triforine E.C. (1000-fold dilution) with 7 miticides and 2 plant nutrient supplements that were effective against the Kanzawa spider mites (Tetranychus kanzawai Kishida). Four mixts. with better activity were subsequently tested in the field. Laboratory study showed that increased or similar toxicity against Kanzawa spider mites was obtained, as compared with triforine alone, with mixts. of 18.6% triforine E.C. (1000-fold) with 2% abamectin E.C. (2000-fold), 20% amitraz E.C. (800-fold), 25% bromopropylate E.C. (500-fold), 25% oxythioquinox W.P. (500-fold), 2.8% bifenthrin E.C. (2000-fold), 68.1% propargite E.C. (2000-fold), 20% benzomate E.C. (1500-fold) and mixture of enzyme-sugar solution (200-fold). The mixture with plant nutrient supplement (Iou Lih Number 2, 250-fold) was less, but insignificantly, effective. In terms of toxicity against Kanzawa spider mites, mixing 18.6% triforine E.C. with the 8 pesticides did not produce any adverse effect. In the field test, mixing 18.6%

triforine E.C. (1000-fold) with 2% abamectin E.C. (2000-fold), 25% bromopropylate E.C. (500-fold) and 2.8% bifenthrin E.C. (2000-fold) gave excellent control rate (92% to 100%) of eggs, larvae, nymphs and adults of Kanzawa spider mites. In contrast with laboratory results, a mixture of triforine with 20% amitraz E.C. (800-fold) was quite ineffective against this spider mite. Thus, growers should avoid mixing these two pesticides.

IT **33089-61-1**, Amitraz
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(toxicity of mixts. of miticides and plant nutrient supplement with triforine **fungicide** against kanzawa spider mite)

RN 33089-61-1 HCAPLUS

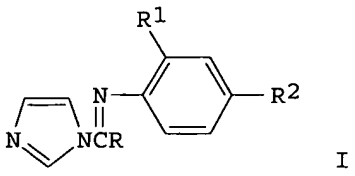
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L29 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1989:419371 HCAPLUS
DOCUMENT NUMBER:	111:19371
TITLE:	Quantitative structure-activity relationships, conformational analyses, and computer graphics study of triflumizole analogs, fungicidal N-(1-imidazol-1-ylalkylidene)anilines
AUTHOR(S):	Nakayama, Akira; Ikura, Katsuyata; Katsuura, Kiyoshi; Hashimoto, Sho; Nakata, Akira
CORPORATE SOURCE:	Odawara Res. Cent., Nippon Soda Co. Ltd., Odawara, 250-02, Japan
SOURCE:	Nippon Noyaku Gakkaishi (**1989**), 14(1), 23-37 CODEN: NNGADV; ISSN: 0385-1559
DOCUMENT TYPE:	Journal
LANGUAGE:	English

GI



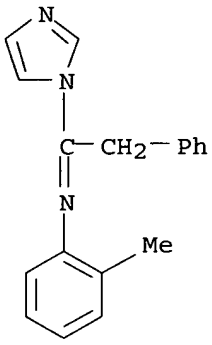
I

AB Fungicidal activity of Trifmine [triflumizole, (E)-4-chloro-α,α,α-trifluoro-N-(1-imidazol-1-yl-2-propoxyethylidene)-o-toluidine] and its analogs I (R = H, halo, OMe, alkyl, CF3; R1 = Cl, H, alkyl, CF3; R2 = alkyl, alkenyl, heterocycle, etc.) against cucumber powdery mildew was analyzed quant. by using physicochem. structural

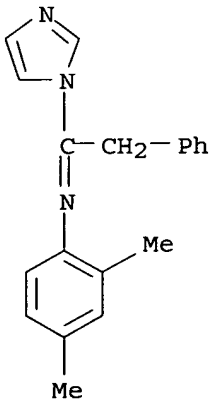
parameters and regression anal. Steric, electronic, and hydrophobic effects of substituents on the benzene ring were important for the fungicidal activity. The effects of substituents on the imino carbon were expressed by steric and hydrophobic parameters as well as indicator variables for α,β-unsatd. and β-oxy structures.
Conformational analyses and computer graphics were employed to study the mode of interaction of triflumizole with cytochrome P 450. An energy min. structure of triflumizole was found to fit the cavity of cytochrome P 450 so as to block the oxidation of lanosterol, the ergosterol precursor. The result of regression anal. and the computer graphics model suggested that steric and hydrophobic properties of imidazole derivs. are important to inhibit the biosynthesis of ergosterol by antagonizing cytochrome P 450 oxidase.

IT **65903-27-7P 65903-30-2P 121279-97-8P 121279-98-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and **fungicidal** activity of, structure in relation to)

RN 65903-27-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)

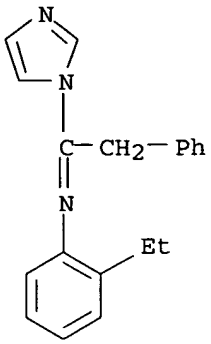


RN 65903-30-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,4-dimethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)

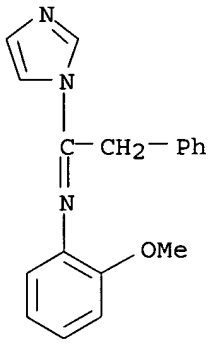


RN 121279-97-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(2-ethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



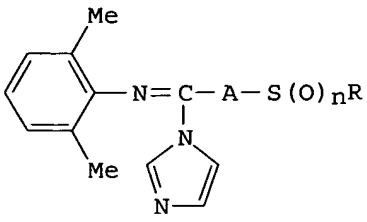
RN 121279-98-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methoxyphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



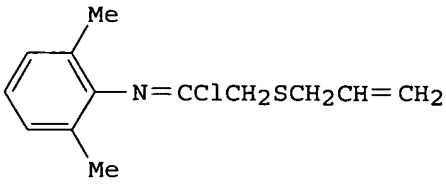
L29 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:119887 HCAPLUS
DOCUMENT NUMBER: 106:119887
TITLE: Preparation of [(2,6-xylylimino)methyl]imidazoles as agricultural fungicides
INVENTOR(S): Oyama, Hiroshi; Morita, Takeshi; Niitsuma, Shiro; Tsujimoto, Kazuyuki; Wada, Takuo
PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61257976	A2	19861115	JP 1985-97855	19850510 <--
PRIORITY APPLN. INFO.:			JP 1985-97855	19850510

OTHER SOURCE(S): CASREACT 106:119887
GI



I



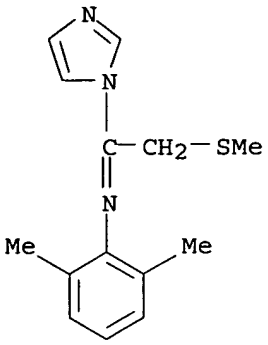
II

AB The title compds. (I; A = alkylene, alkenylene; R = alkyl, alkenyl, alkynyl, etc.; n = 0-2) were prepared Thus, formimidoyl chloride II was added with ice cooling to a mixture of imidazole, Et3N, and MeCN over 10 min and the resulting mixture refluxed for 30 min to give I (A = CH2, R = CH2:CHCH2, n = 0]. At 250 ppm I gave 100% inhibition of Fusarium moniliforme.

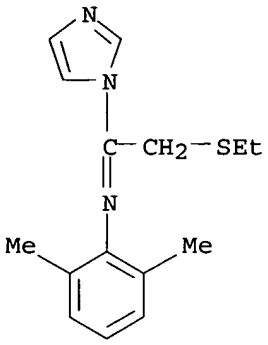
IT **107007-10-3P 107007-11-4P 107007-12-5P**
107007-13-6P 107007-14-7P 107007-16-9P
107007-17-0P 107007-18-1P 107007-19-2P
107007-20-5P 107007-21-6P 107007-22-7P
107007-23-8P 107007-24-9P 107007-25-0P
107007-26-1P 107007-27-2P 107007-28-3P
107007-29-4P 107007-30-7P 107007-31-8P
107007-32-9P 107007-33-0P 107007-34-1P
107007-35-2P 107007-36-3P 107007-37-4P
107007-38-5P 107007-39-6P 107007-40-9P
107007-41-0P 107007-42-1P 107007-43-2P
107007-44-3P 107007-45-4P 107007-46-5P
107007-47-6P 107007-48-7P 107007-49-8P
107007-50-1P 107007-51-2P 107007-52-3P
107007-53-4P 107007-54-5P 107007-55-6P
107007-56-7P 107007-57-8P 107007-58-9P
107007-59-0P 107007-60-3P 107007-61-4P
107007-62-5P 107007-63-6P 107007-64-7P
107007-65-8P 107007-66-9P 107007-67-0P
107007-68-1P 107007-69-2P 107007-70-5P
107007-71-6P 107007-72-7P 107007-73-8P
107007-74-9P 107007-75-0P 107007-76-1P
107007-77-2P 107007-78-3P 107007-79-4P
107007-80-7P 107007-81-8P 107007-82-9P
107007-83-0P 107007-84-1P 107032-50-8P
107032-51-9P 107032-52-0P 107032-53-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agricultural **fungicide**)

RN 107007-10-3 HCAPLUS

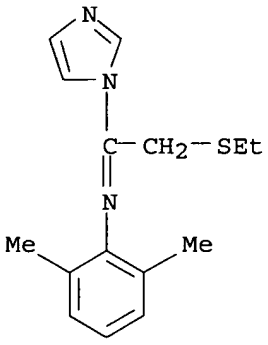
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(methylthio)ethyl]- (9CI) (CA INDEX NAME)



RN 107007-11-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)ethyl]- (9CI) (CA INDEX NAME)



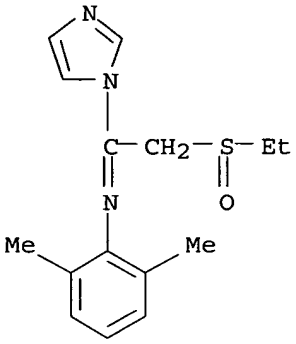
RN 107007-12-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



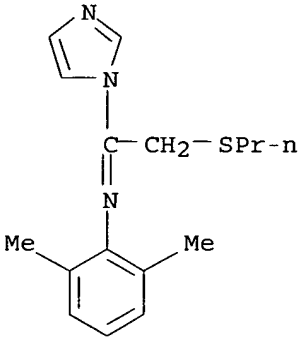
● HCl

RN 107007-13-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylsulfinyl)ethyl]-

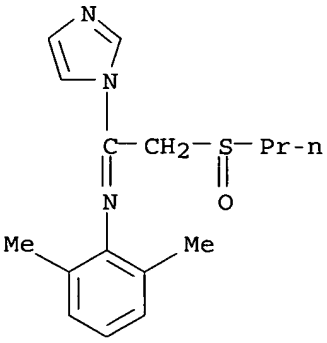
(9CI) (CA INDEX NAME)



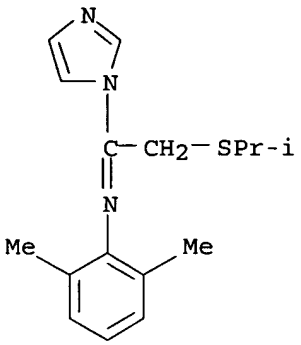
RN 107007-14-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylthio)ethyl]- (9CI) (CA INDEX NAME)



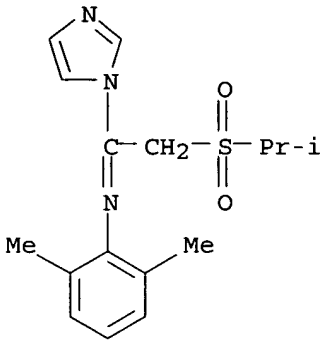
RN 107007-16-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylsulfinyl)ethyl]- (9CI) (CA INDEX NAME)



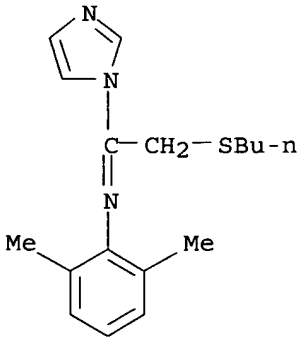
RN 107007-17-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(1-methylethyl)thio]ethyl]- (9CI) (CA INDEX NAME)



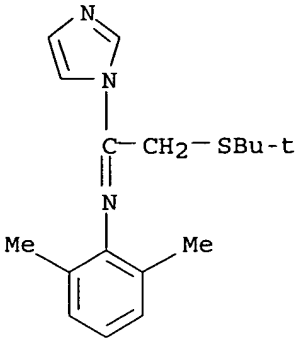
RN 107007-18-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(1-methylethyl)sulfonyl]ethyl]- (9CI) (CA INDEX NAME)



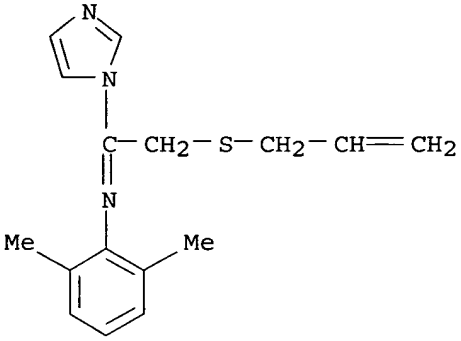
RN 107007-19-2 HCAPLUS
CN 1H-Imidazole, 1-[2-(butylthio)-1-[(2,6-dimethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



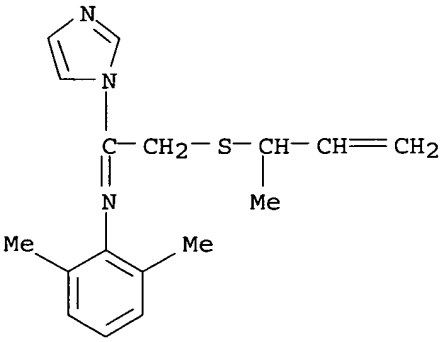
RN 107007-20-5 HCAPLUS
CN 1H-Imidazole, 1-[2-[(1,1-dimethylethyl)thio]-1-[(2,6-dimethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



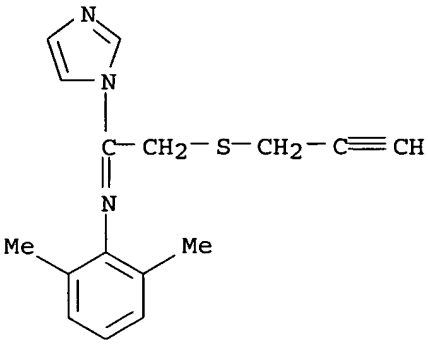
RN 107007-21-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propenylthio)ethyl]-
(9CI) (CA INDEX NAME)



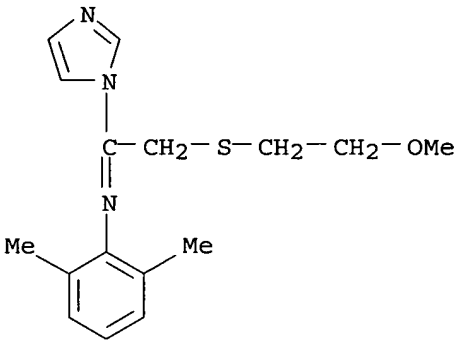
RN 107007-22-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(1-methyl-2-
propenyl)thio]ethyl]- (9CI) (CA INDEX NAME)



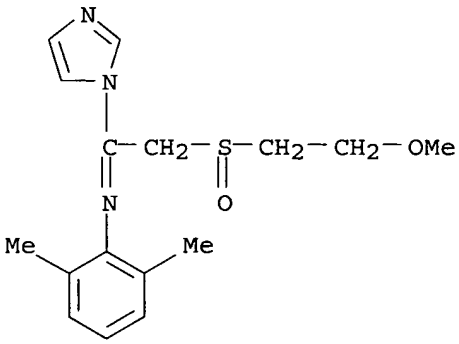
RN 107007-23-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propynylthio)ethyl]-
(9CI) (CA INDEX NAME)



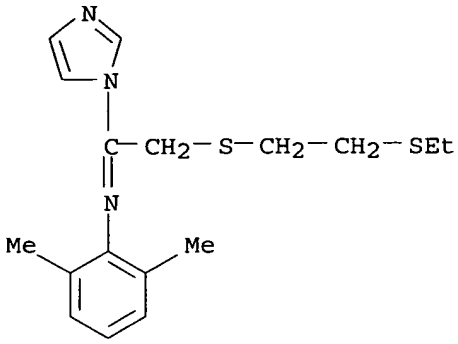
RN 107007-24-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(2-methoxyethyl)thio]ethyl]- (9CI) (CA INDEX NAME)



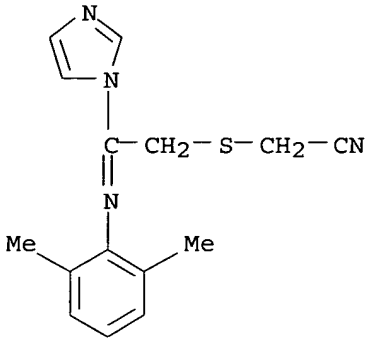
RN 107007-25-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(2-methoxyethyl)sulfinyl]ethyl]- (9CI) (CA INDEX NAME)



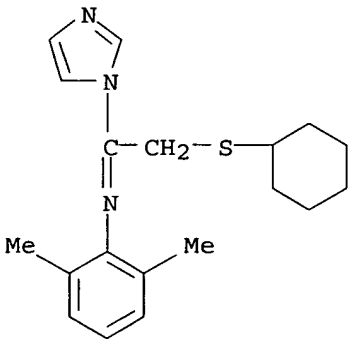
RN 107007-26-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[[2-(ethylthio)ethyl]thio]ethyl]- (9CI) (CA INDEX NAME)



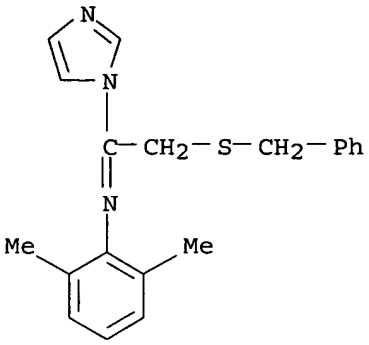
RN 107007-27-2 HCAPLUS
CN 1H-Imidazole, 1-[2-[(cyanomethyl)thio]-1-[(2,6-dimethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



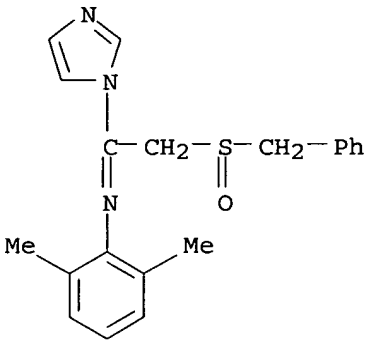
RN 107007-28-3 HCAPLUS
CN 1H-Imidazole, 1-[2-(cyclohexylthio)-1-[(2,6-dimethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



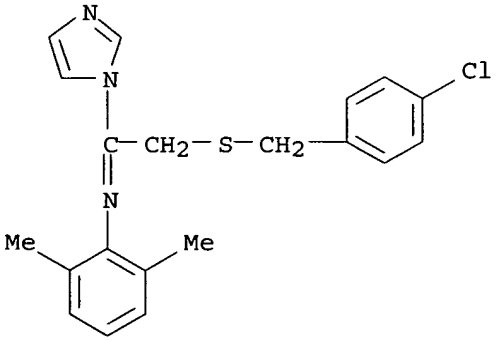
RN 107007-29-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(phenylmethyl)thio]ethyl]- (9CI) (CA INDEX NAME)



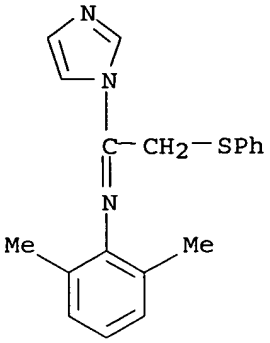
RN 107007-30-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(phenylmethyl)sulfinyl]ethyl]- (9CI) (CA INDEX NAME)



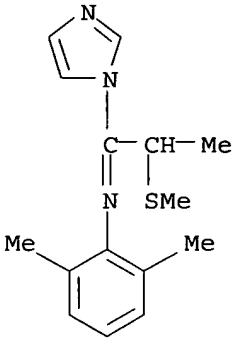
RN 107007-31-8 HCAPLUS
CN 1H-Imidazole, 1-[2-[[(4-chlorophenyl)methyl]thio]-1-[(2,6-dimethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



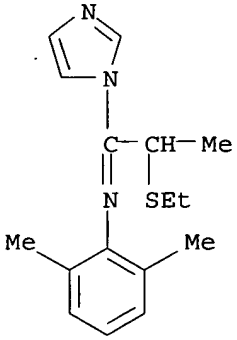
RN 107007-32-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(phenylthio)ethyl]- (9CI) (CA INDEX NAME)



RN 107007-33-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(methylthio)propyl]- (9CI) (CA INDEX NAME)



RN 107007-34-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)propyl]- (9CI) (CA INDEX NAME)

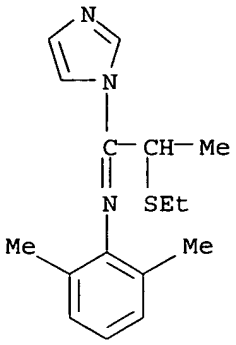


RN 107007-35-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)propyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

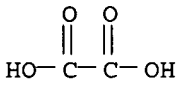
CRN 107007-34-1

CMF C16 H21 N3 S

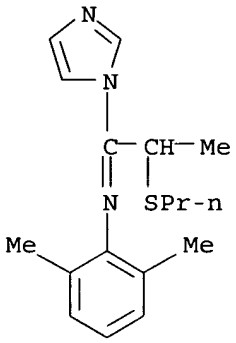


CM 2

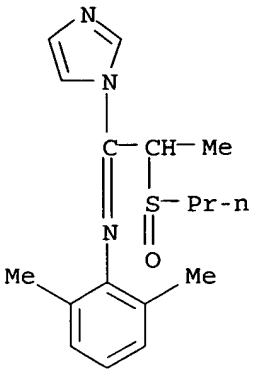
CRN 144-62-7
CMF C2 H2 O4



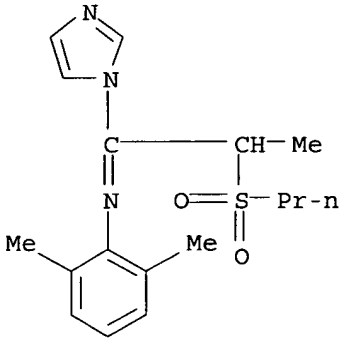
RN 107007-36-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylthio)propyl]-
(9CI) (CA INDEX NAME)



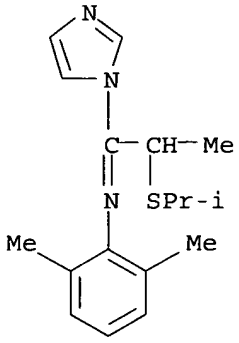
RN 107007-37-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylsulfinyl)propyl]-
(9CI) (CA INDEX NAME)



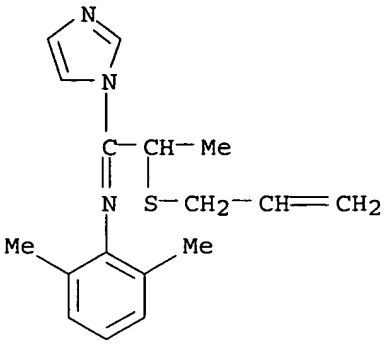
RN 107007-38-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylsulfonyl)propyl]- (9CI) (CA INDEX NAME)



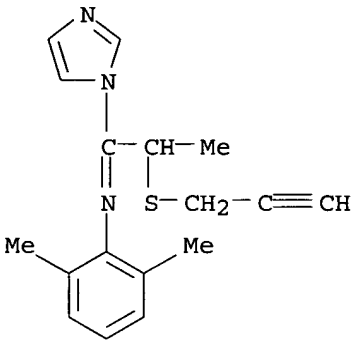
RN 107007-39-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(1-methylethyl)thio]propyl]- (9CI) (CA INDEX NAME)



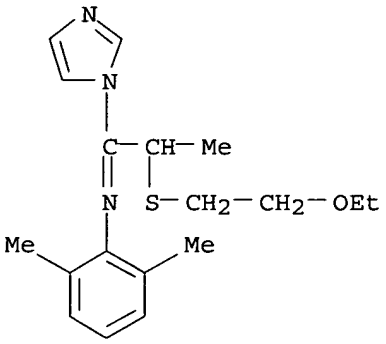
RN 107007-40-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propenylthio)propyl]- (9CI) (CA INDEX NAME)



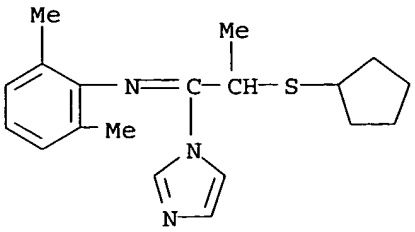
RN 107007-41-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propynylthio)propyl]- (9CI) (CA INDEX NAME)



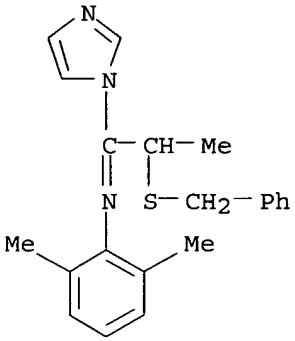
RN 107007-42-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(2-ethoxyethyl)thio]propyl]- (9CI) (CA INDEX NAME)



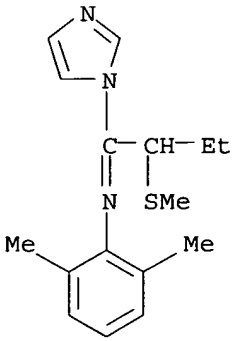
RN 107007-43-2 HCAPLUS
CN 1H-Imidazole, 1-[2-(cyclopentylthio)-1-[(2,6-dimethylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



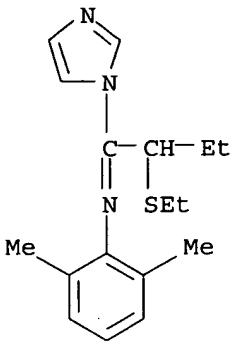
RN 107007-44-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(phenylmethyl)thio]propyl]- (9CI) (CA INDEX NAME)



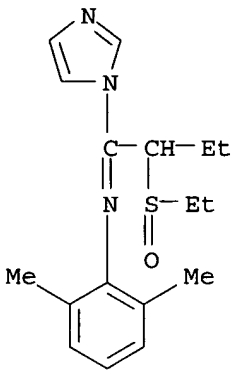
RN 107007-45-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(methylthio)butyl]- (9CI) (CA INDEX NAME)



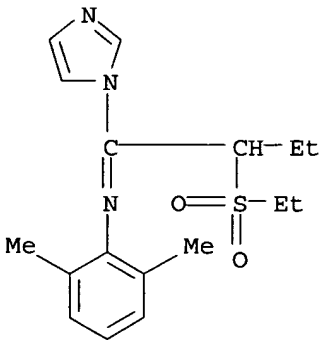
RN 107007-46-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)butyl]- (9CI) (CA INDEX NAME)



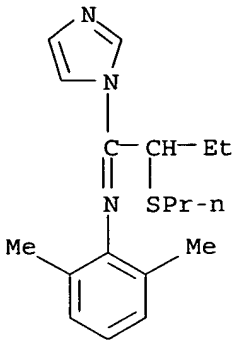
RN 107007-47-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylsulfinyl)butyl]- (9CI) (CA INDEX NAME)



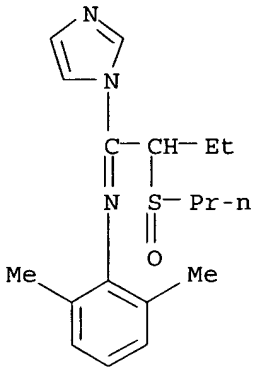
RN 107007-48-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylsulfonyl)butyl]- (9CI) (CA INDEX NAME)



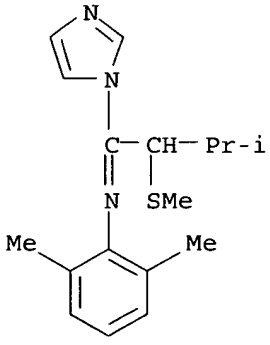
RN 107007-49-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylthio)butyl]- (9CI) (CA INDEX NAME)



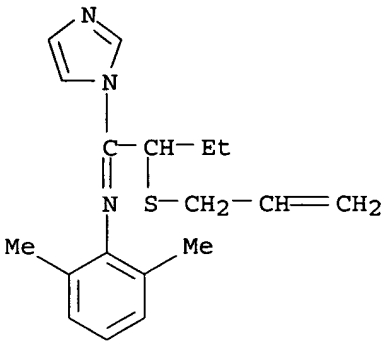
RN 107007-50-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylsulfinyl)butyl]-
(9CI) (CA INDEX NAME)



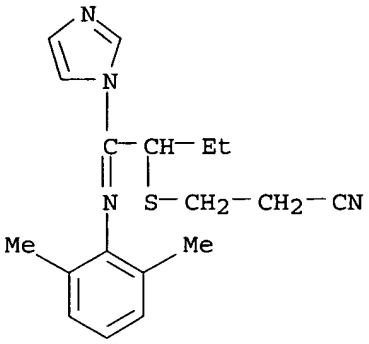
RN 107007-51-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-methyl-2-
(methylthio)butyl]- (9CI) (CA INDEX NAME)



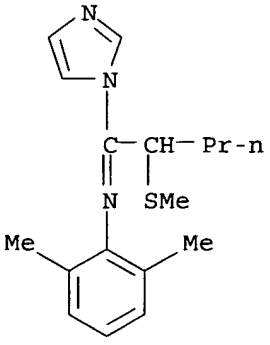
RN 107007-52-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propenylthio)butyl]-
(9CI) (CA INDEX NAME)



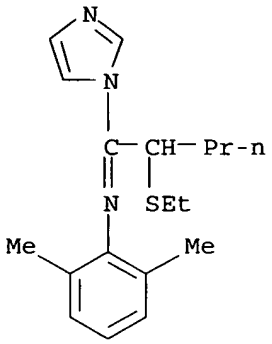
RN 107007-53-4 HCAPLUS
CN 1H-Imidazole, 1-[2-[(2-cyanoethyl)thio]-1-[(2,6-dimethylphenyl)imino]butyl]- (9CI) (CA INDEX NAME)



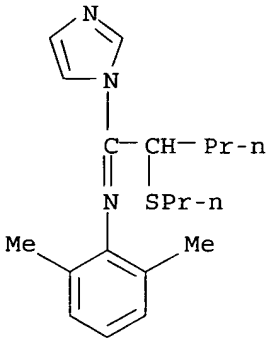
RN 107007-54-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(methylthio)pentyl]- (9CI) (CA INDEX NAME)



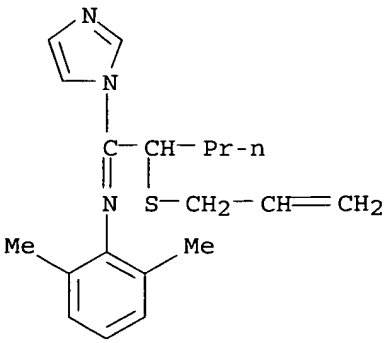
RN 107007-55-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)pentyl]- (9CI) (CA INDEX NAME)



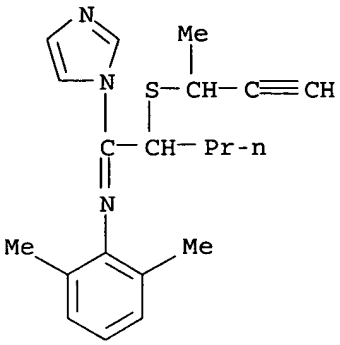
RN 107007-56-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylthio)pentyl]-
(9CI) (CA INDEX NAME)



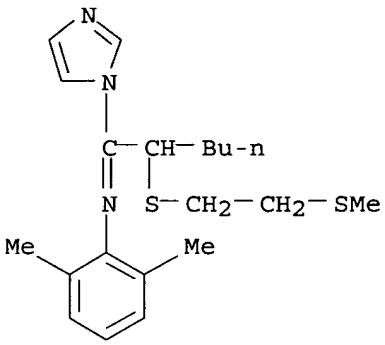
RN 107007-57-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propenylthio)pentyl]-
(9CI) (CA INDEX NAME)



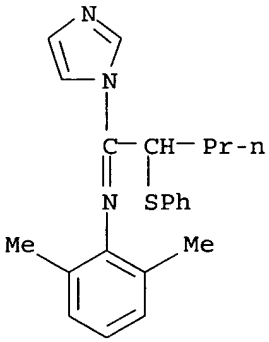
RN 107007-58-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[(1-methyl-2-
propynyl)thio]pentyl]- (9CI) (CA INDEX NAME)



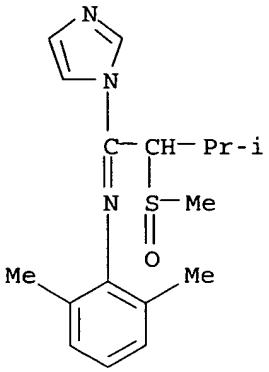
RN 107007-59-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-[[2-(methylthio)ethyl]thio]hexyl]- (9CI) (CA INDEX NAME)



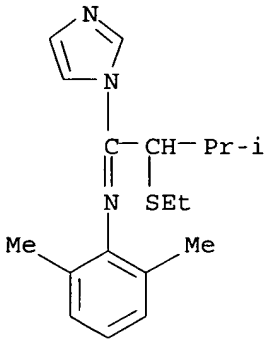
RN 107007-60-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(phenylthio)pentyl]- (9CI) (CA INDEX NAME)



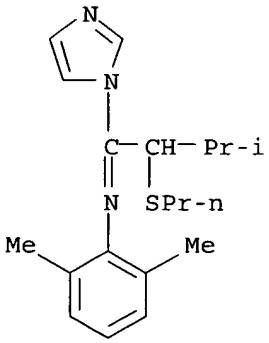
RN 107007-61-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-methyl-2-(methylsulfinyl)butyl]- (9CI) (CA INDEX NAME)



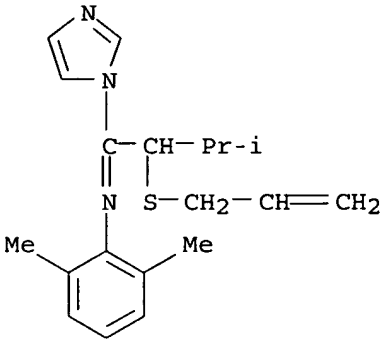
RN 107007-62-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)-3-methylbutyl]- (9CI) (CA INDEX NAME)



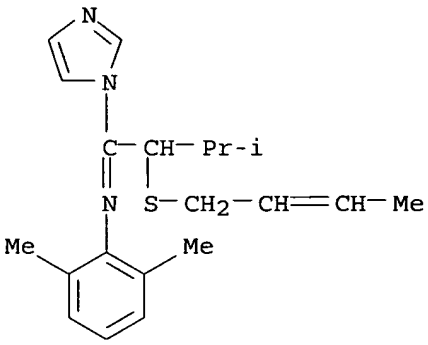
RN 107007-63-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-methyl-2-(propylthio)butyl]- (9CI) (CA INDEX NAME)



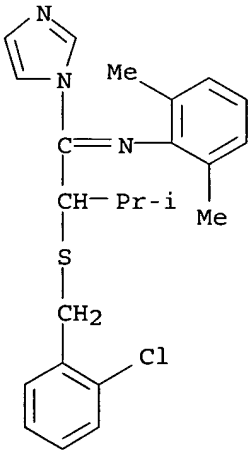
RN 107007-64-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-methyl-2-(2-propenylthio)butyl]- (9CI) (CA INDEX NAME)



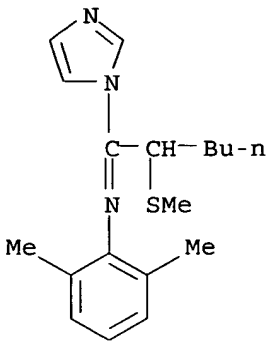
RN 107007-65-8 HCAPLUS
CN 1H-Imidazole, 1-[2-(2-butenylthio)-1-[(2,6-dimethylphenyl)imino]-3-methylbutyl]- (9CI) (CA INDEX NAME)



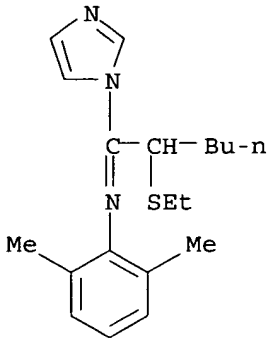
RN 107007-66-9 HCAPLUS
CN 1H-Imidazole, 1-[2-[[(2-chlorophenyl)methyl]thio]-1-[(2,6-dimethylphenyl)imino]-3-methylbutyl]- (9CI) (CA INDEX NAME)



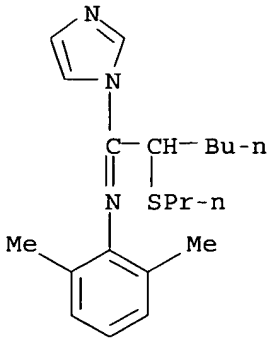
RN 107007-67-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(methylthio)hexyl]- (9CI) (CA INDEX NAME)



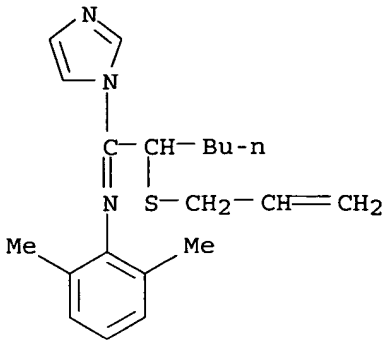
RN 107007-68-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)hexyl]- (9CI) (CA INDEX NAME)



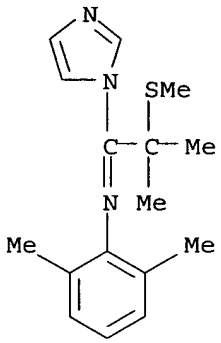
RN 107007-69-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(propylthio)hexyl]- (9CI) (CA INDEX NAME)



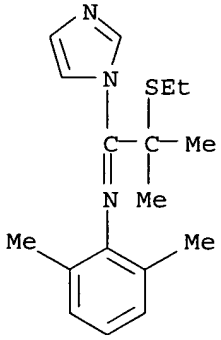
RN 107007-70-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(2-propenylthio)hexyl]- (9CI) (CA INDEX NAME)



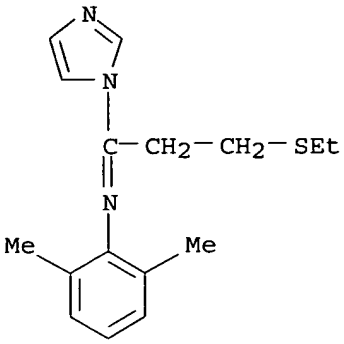
RN 107007-71-6 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-methyl-2-(methylthio)propyl]- (9CI) (CA INDEX NAME)



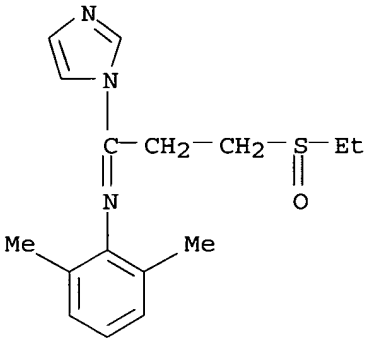
RN 107007-72-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(ethylthio)-2-methylpropyl]- (9CI) (CA INDEX NAME)



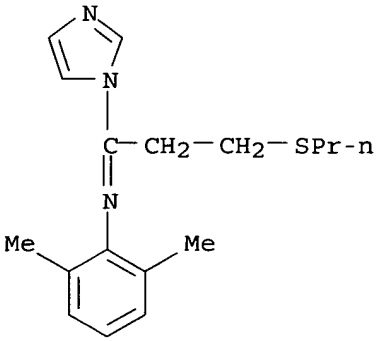
RN 107007-73-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(ethylthio)propyl]- (9CI) (CA INDEX NAME)



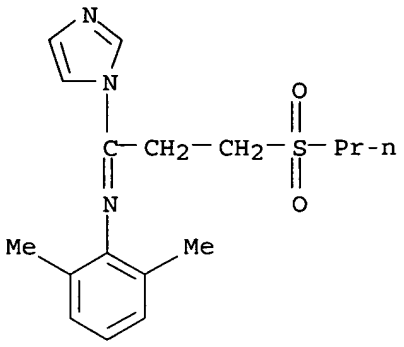
RN 107007-74-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(ethylsulfinyl)propyl]-
(9CI) (CA INDEX NAME)



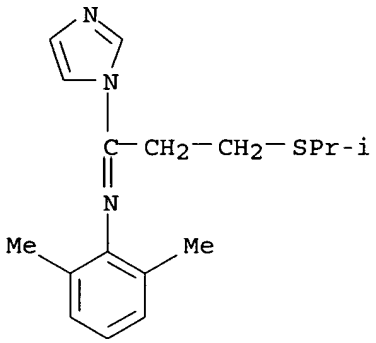
RN 107007-75-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(propylthio)propyl]-
(9CI) (CA INDEX NAME)



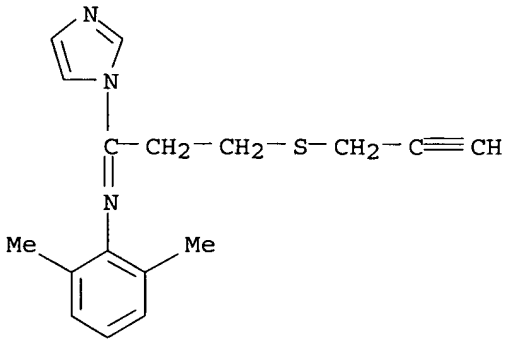
RN 107007-76-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(propylsulfonyl)propyl]-
(9CI) (CA INDEX NAME)



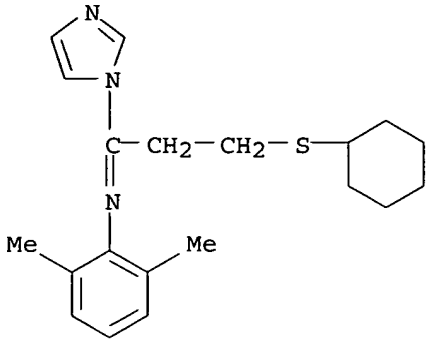
RN 107007-77-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-[(1-methylethyl)thio]propyl]- (9CI) (CA INDEX NAME)



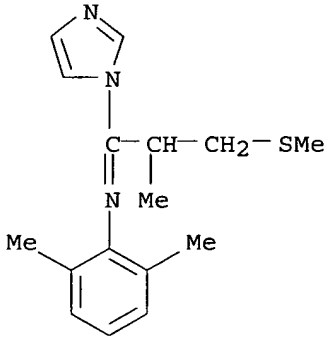
RN 107007-78-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(2-propynylthio)propyl]- (9CI) (CA INDEX NAME)



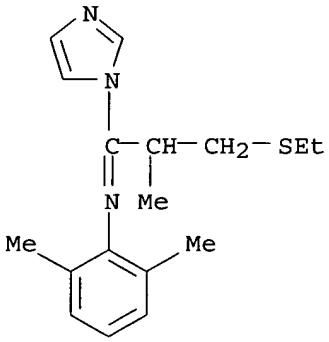
RN 107007-79-4 HCAPLUS
CN 1H-Imidazole, 1-[3-(cyclohexylthio)-1-[(2,6-dimethylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



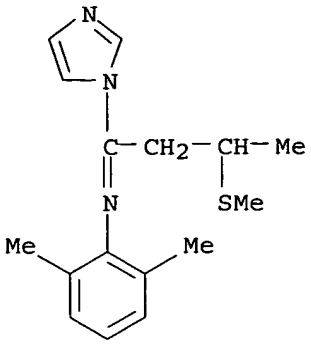
RN 107007-80-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-methyl-3-(methylthio)propyl]- (9CI) (CA INDEX NAME)



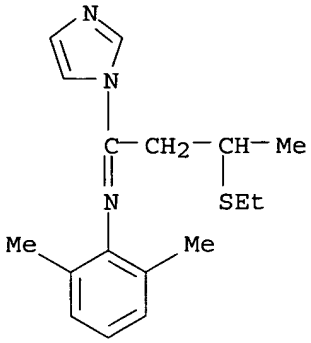
RN 107007-81-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(ethylthio)-2-methylpropyl]- (9CI) (CA INDEX NAME)



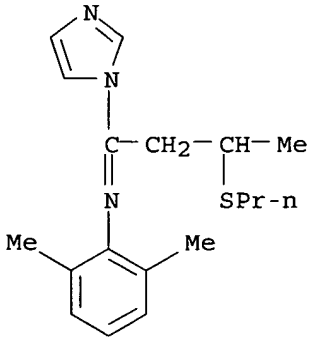
RN 107007-82-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(methylthio)butyl]- (9CI) (CA INDEX NAME)



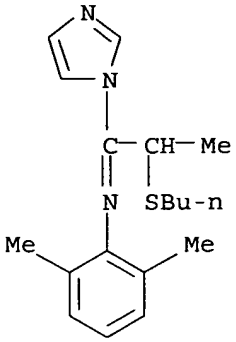
RN 107007-83-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(ethylthio)butyl]- (9CI) (CA INDEX NAME)



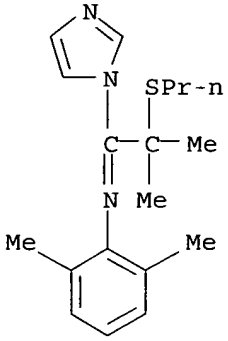
RN 107007-84-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(propylthio)butyl]- (9CI) (CA INDEX NAME)



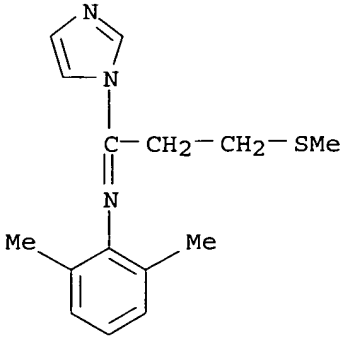
RN 107032-50-8 HCAPLUS
CN 1H-Imidazole, 1-[2-(butylthio)-1-[(2,6-dimethylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



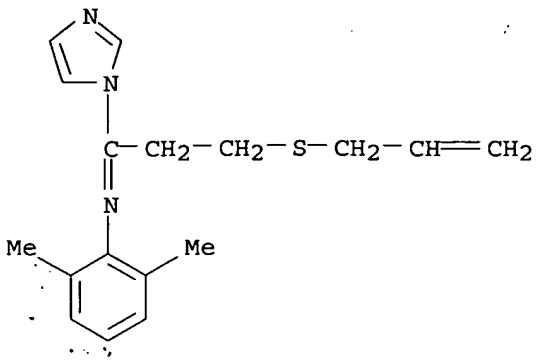
RN 107032-51-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-methyl-2-(propylthio)propyl]- (9CI) (CA INDEX NAME)



RN 107032-52-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(methylthio)propyl]- (9CI) (CA INDEX NAME)



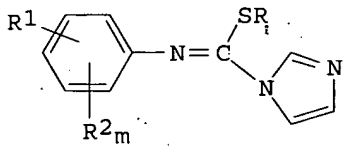
RN 107032-53-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-3-(2-propenylthio)propyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:186415 HCAPLUS
DOCUMENT NUMBER: 104:186415
TITLE: Imidazole derivatives as nonmedical fungicides
INVENTOR(S): Nakanishi, Hiroyuki; Kosakata, Takeshi; Nishimura, Akira; Myagi, Yukio; Sugano, Hideo
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60255775	A2	19851217	JP 1984-109824	19840530 <--
PRIORITY APPLN. INFO.:			JP 1984-109824	19840530

GI



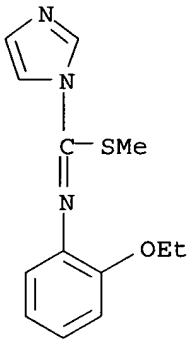
I

AB Fungicidal imidazole derivs. I [R = C1-8 alkyl, cyanoalkyl, alkenyl, haloalkenyl, alkynyl, alkoxyalkyl, alkoxycarbonylalkyl, acyloxyalkyl, (halogen-substituted) phenoxyalkyl; R1 = lower haloalkyl, lower alkoxy, lower alkylthio, lower haloalkoxy, lower haloalkylthio, alkenyloxy, alkynyloxy, alkoxycarbonyl, OPh, OCH2Ph; R2 = H, halo, lower alkyl, lower alkoxy; R1R2 may be an alklenedioxy group; m = 1, 2] were prepared Thus, a solution of 0.87 g 2,4-dichloro-5-isopropoxyphenyl isothiocyanate and 0.25 g imidazole in 10 mL Me2SO was mixed with 0.15 g powdered NaOH and the resulting mixture treated with 0.6 g Me2CHI for 2 h at room temperature to give 51% I (R = CHMe2, R1 = 5-OCHMe2, R2m = 2,4-Cl2), which was effective at 200 ppm against barley pathogen, Erysiphe graminis.

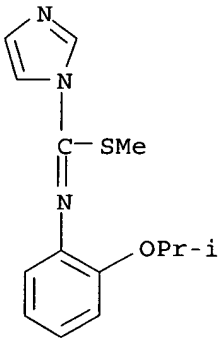
IT **101856-20-6P 101856-21-7P 101856-23-9P**
101856-24-0P 101856-25-1P 101856-26-2P
101856-28-4P 101856-29-5P 101856-30-8P
101856-33-1P 101856-35-3P 101856-36-4P

101856-40-0P 101856-41-1P 101856-43-3P
101856-44-4P 101856-46-6P 101856-47-7P
101856-49-9P 101856-50-2P 101856-51-3P
101856-53-5P 101856-56-8P 101856-57-9P
101856-59-1P 101856-60-4P 101856-64-8P
101856-65-9P 101856-66-0P 101856-67-1P
101856-68-2P 101856-69-3P 101856-70-6P
101856-71-7P 101856-72-8P 101856-74-0P
101856-75-1P 101856-76-2P 101856-78-4P
101856-79-5P 101856-80-8P 101856-81-9P
101856-82-0P 101856-83-1P 101856-84-2P
101856-87-5P 101856-89-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as **fungicide**)

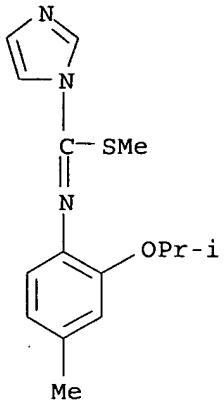
RN 101856-20-6 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-(2-ethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)



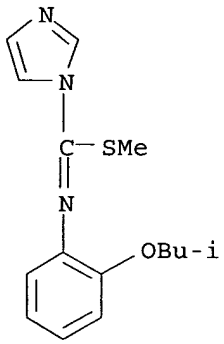
RN 101856-21-7 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



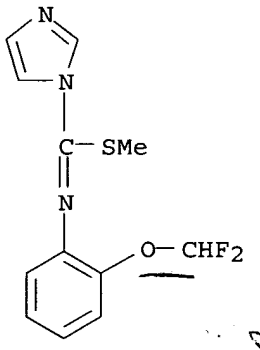
RN 101856-23-9 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[4-methyl-2-(1-methylethoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



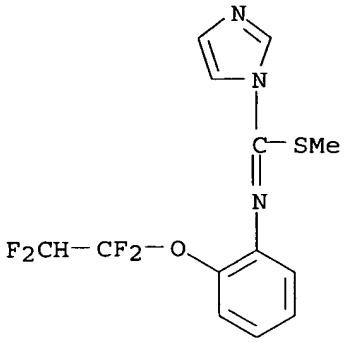
RN 101856-24-0 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(2-methylpropoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



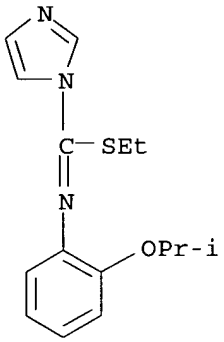
RN 101856-25-1 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(difluoromethoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



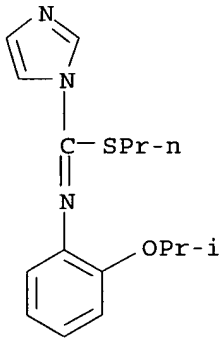
RN 101856-26-2 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1,1,2,2-tetrafluoroethoxy)phenyl]-, methyl ester (9CI) (CA INDEX NAME)



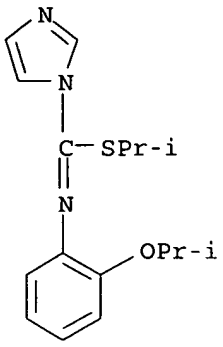
RN 101856-28-4 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



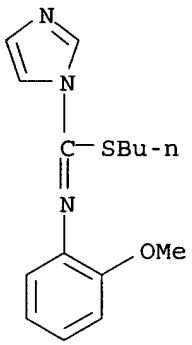
RN 101856-29-5 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, propyl ester (9CI) (CA INDEX NAME)



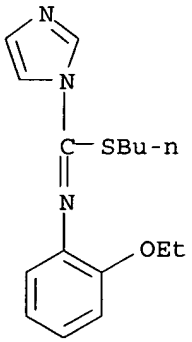
RN 101856-30-8 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



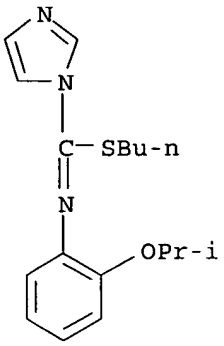
RN 101856-33-1 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-(2-methoxyphenyl)-, butyl ester (9CI) (CA INDEX NAME)



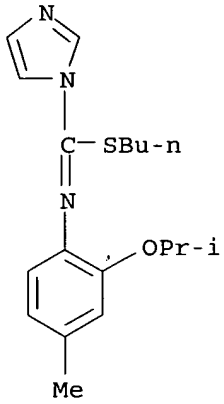
RN 101856-35-3 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-(2-ethoxyphenyl)-, butyl ester (9CI) (CA INDEX NAME)



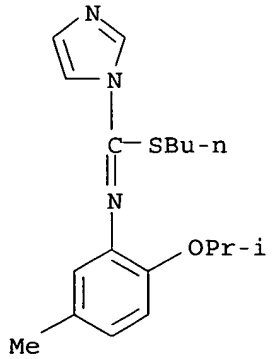
RN 101856-36-4 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



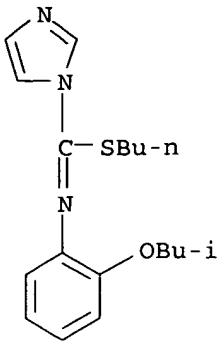
RN 101856-40-0 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[4-methyl-2-(1-methylethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



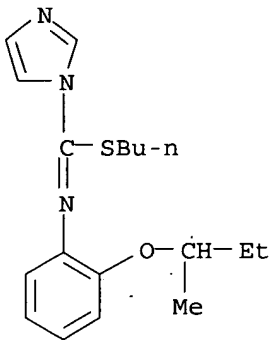
RN 101856-41-1 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



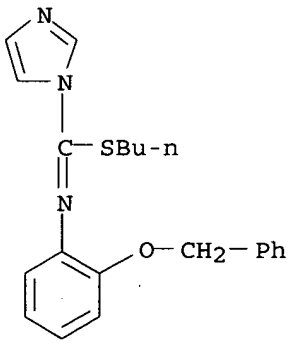
RN 101856-43-3 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(2-methylpropoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



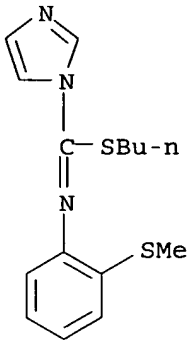
RN 101856-44-4 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylpropoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



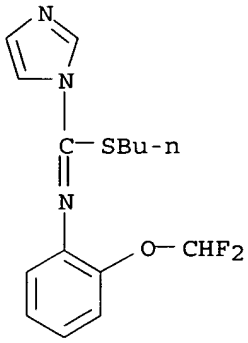
RN 101856-46-6 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(phenylmethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



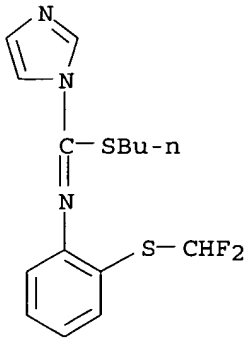
RN 101856-47-7 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(methylthio)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



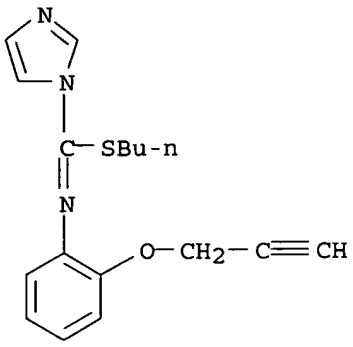
RN 101856-49-9 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(difluoromethoxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



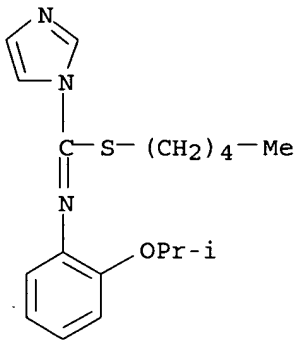
RN 101856-50-2 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-[(difluoromethyl)thio]phenyl]-, butyl ester (9CI) (CA INDEX NAME)



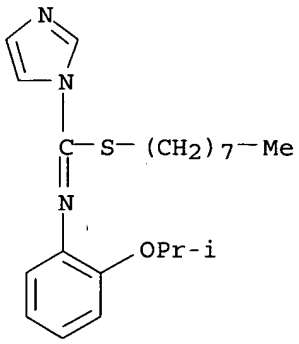
RN 101856-51-3 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(2-propynyloxy)phenyl]-, butyl ester (9CI) (CA INDEX NAME)



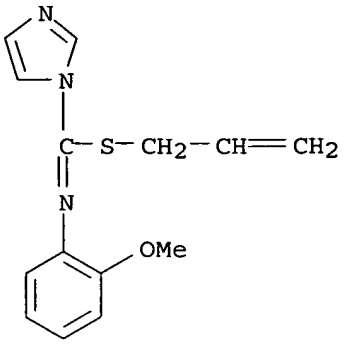
RN 101856-53-5 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, pentyl ester (9CI) (CA INDEX NAME)



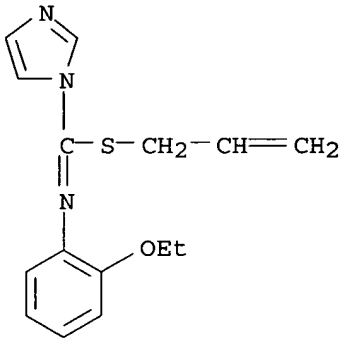
RN 101856-56-8 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, octyl ester (9CI) (CA INDEX NAME)



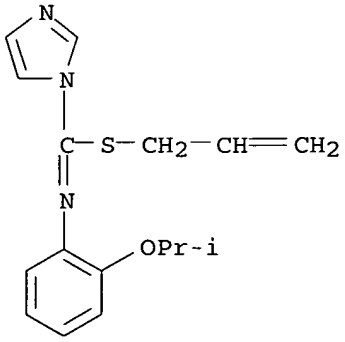
RN 101856-57-9 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-(2-methoxyphenyl)-, 2-propenyl ester (9CI) (CA INDEX NAME)



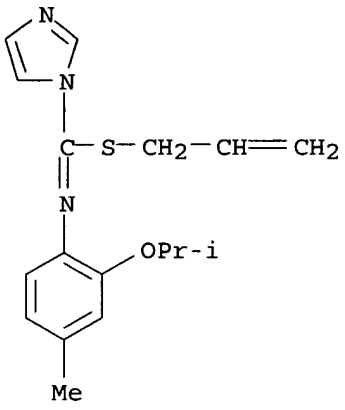
RN 101856-59-1 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-(2-ethoxyphenyl)-, 2-propenyl ester (9CI) (CA INDEX NAME)



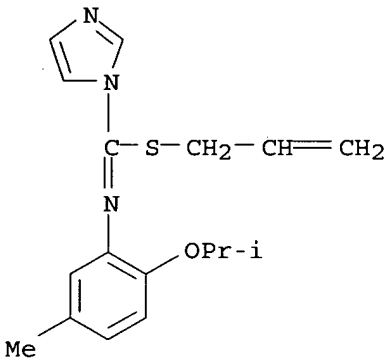
RN 101856-60-4 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



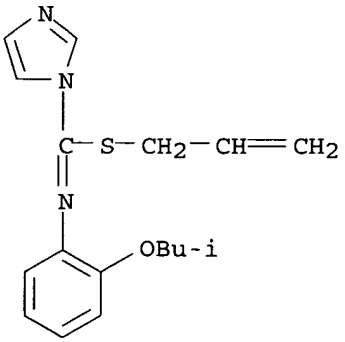
RN 101856-64-8 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[4-methyl-2-(1-methylethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



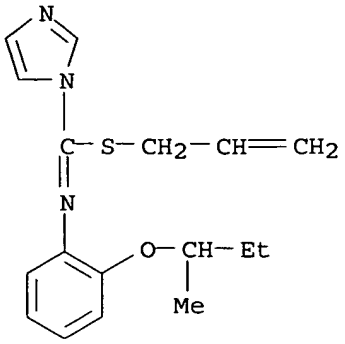
RN 101856-65-9 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



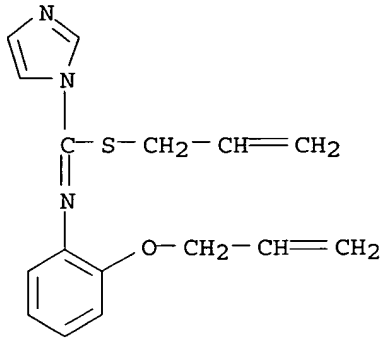
RN 101856-66-0 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(2-methylpropoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



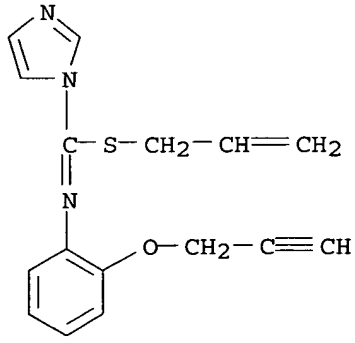
RN 101856-67-1 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylpropoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



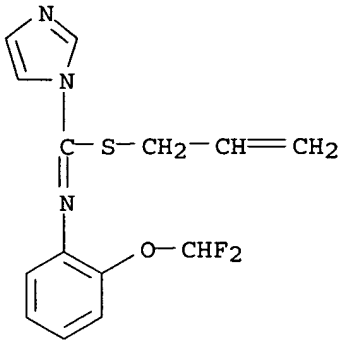
RN 101856-68-2 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(2-propenyloxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



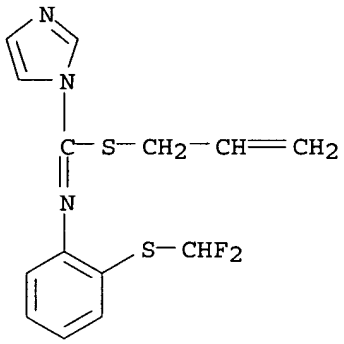
RN 101856-69-3 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(2-propynyloxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



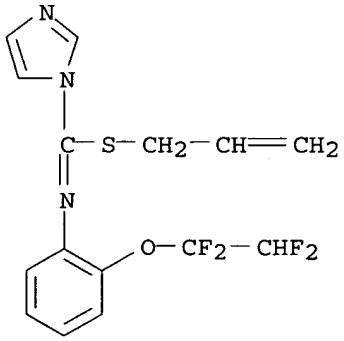
RN 101856-70-6 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(difluoromethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



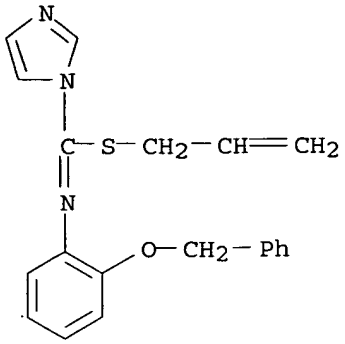
RN 101856-71-7 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-[(difluoromethyl)thio]phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



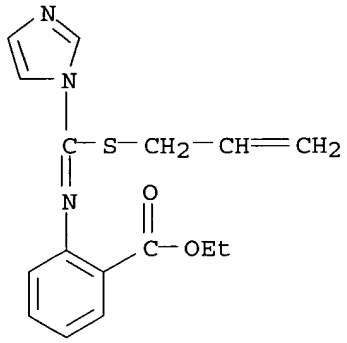
RN 101856-72-8 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1,1,2,2-tetrafluoroethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



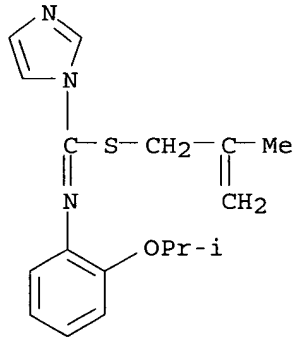
RN 101856-74-0 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(phenylmethoxy)phenyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



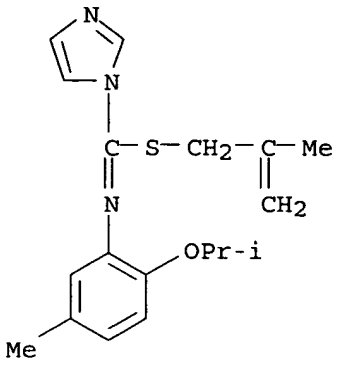
RN 101856-75-1 HCAPLUS
CN Benzoic acid, 2-[[(1H-imidazol-1-yl)(2-propenylthio)methylene]amino]-, ethyl ester (9CI) (CA INDEX NAME)



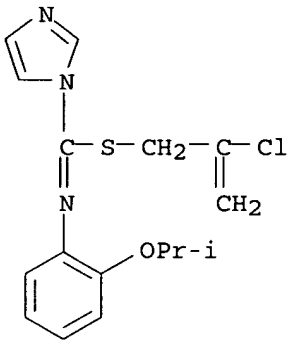
RN 101856-76-2 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



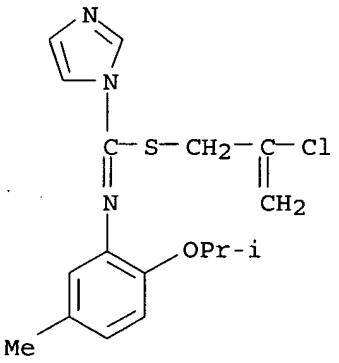
RN 101856-78-4 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)



RN 101856-79-5 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-chloro-2-propenyl ester (9CI) (CA INDEX NAME)

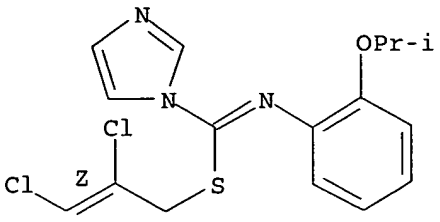


RN 101856-80-8 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[5-methyl-2-(1-methylethoxy)phenyl]-, 2-chloro-2-propenyl ester (9CI) (CA INDEX NAME)



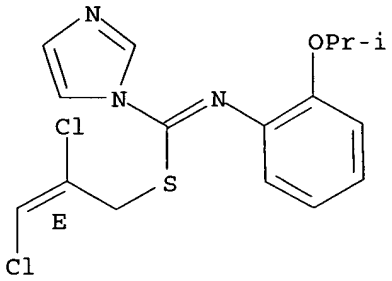
RN 101856-81-9 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2,3-dichloro-2-propenyl ester, (Z,?)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.

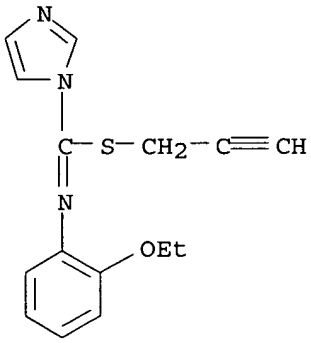


RN 101856-82-0 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2,3-dichloro-2-propenyl ester, (E,?)- (9CI) (CA INDEX NAME)

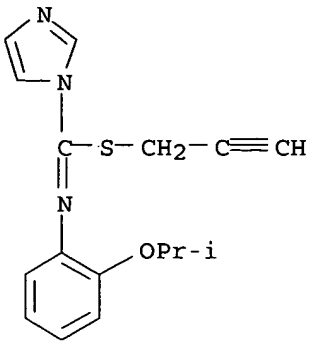
Double bond geometry as described by E or Z.



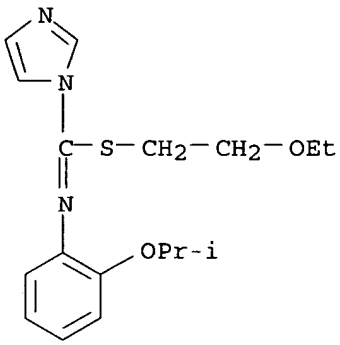
RN 101856-83-1 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-(2-ethoxyphenyl)-, 2-propynyl ester (9CI) (CA INDEX NAME)



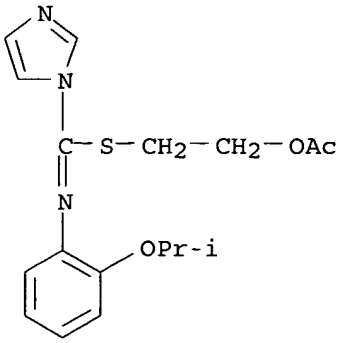
RN 101856-84-2 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-propynyl ester (9CI) (CA INDEX NAME)



RN 101856-87-5 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-ethoxyethyl ester (9CI) (CA INDEX NAME)



RN 101856-89-7 HCAPLUS
CN 1H-Imidazole-1-carboximidothioic acid, N-[2-(1-methylethoxy)phenyl]-, 2-(acetyloxy)ethyl ester (9CI) (CA INDEX NAME)

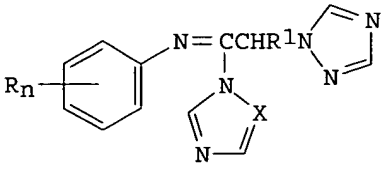


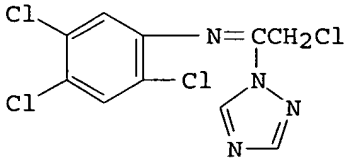
L29 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:551861 HCAPLUS
DOCUMENT NUMBER: 101:151861
TITLE: Antifungal triazoles
PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59088473	A2	19840522	JP 1982-198854	19821115 <--
JP 02003785	B4	19900124		

PRIORITY APPLN. INFO.: JP 1982-198854 19821115
GI

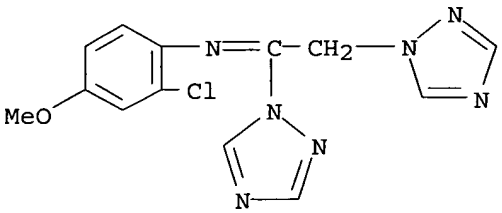

I


II

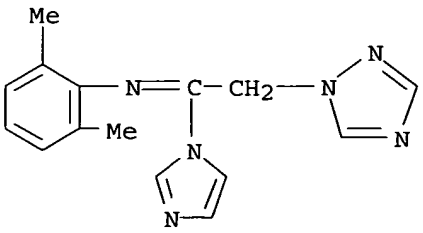
AB Twelve triazoles I (Rn = H, 4-CF3, 2,4-ClF, 2,6-Me2, 2,4,5-Cl3, etc.; R1 = H, Me, Et; X = N, CH), useful as agricultural fungicides, were prepared e.g. from the (chloroethyl)triazole II and 1,2,4-triazole (III). Thus, refluxing 32.4 g II with 7.3 g III in Me2CO containing K2CO3 for 2 h gave 32.4 g I (Rn = 2,4,5-Cl3, R1 = H, X = N).

IT **92310-85-5P 92310-91-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as **fungicides**)

RN 92310-85-5 HCAPLUS
CN 1H-1,2,4-Triazole, 1-[1-[(2-chloro-4-methoxyphenyl)imino]-2-(1H-1,2,4-triazol-1-yl)ethyl]- (9CI) (CA INDEX NAME)



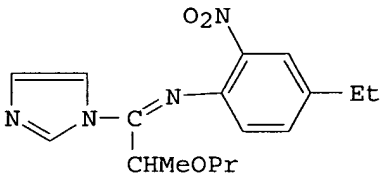
RN 92310-91-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]-2-(1H-1,2,4-triazol-1-yl)ethyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:191876 HCAPLUS
DOCUMENT NUMBER: 100:191876
TITLE: 1-[N-(4-Ethyl-2-nitrophenyl)-2-propoxypropaneimidoyl]imidazole
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58216162	A2	19831215	JP 1982-98973	19820609 <--
JP 03015635	B4	19910301		

PRIORITY APPLN. INFO.: JP 1982-98973 19820609
OTHER SOURCE(S): CASREACT 100:191876
GI

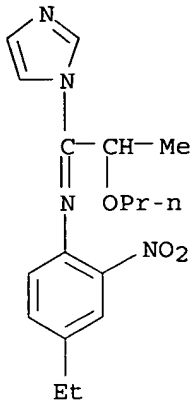


I

AB Title compound (I) was prepared by reaction of 4,2-Et(O2N)C6H3N:CXCHMeOPr (X = halo) with imidazole (II) in the presence of acid scavengers. Thus, a mixture of 33 g 4,2-Et(O2N)C6H3NHCOCHMeOPr, 56 g Ph3P, 22 g II, and 50 mL CCl4 in MeCN was stirred 20 h at room temperature to give 27 g I. I showed fungicidal activity at 250 ppm.

IT **89971-17-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and **fungicidal** activity of)

RN 89971-17-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(4-ethyl-2-nitrophenyl)imino]-2-propoxypropyl]- (9CI) (CA INDEX NAME)

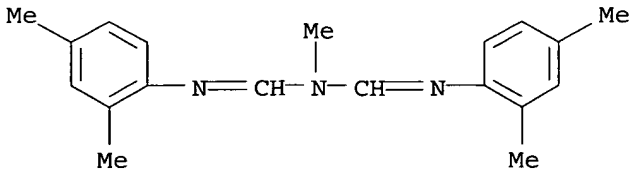


L29 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:81214 HCAPLUS
DOCUMENT NUMBER: 100:81214
TITLE: Effects of pesticides on the apple rust mite Aculus schlechtendali (Nal.) (Eriophyidae)
AUTHOR(S): Easterbrook, M. A.
CORPORATE SOURCE: East Malling Res. Stn., Maidstone/Kent, ME19 6BJ, UK
SOURCE: Journal of Horticultural Science (**1984**), 59(1), 51-5
CODEN: JHSCA8; ISSN: 0022-1589
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Of pesticides tested for their effect on A. schlechtendali in field trials, pirimiphos-methyl [29232-93-7] and amitraz [**33089-61-1**] gave the most effective control pre-blossom, though these materials were very toxic to the predator, Typhlodromus pyri. Endosulfan [115-29-7] and carbaryl [63-25-2] gave moderate control pre-blossom and good control post-blossom; cyhexatin [13121-70-5] was only effective post-blossom. Several of the materials tested were more toxic to A. schlechtendali than to T. pyri and so are potentially useful for inclusion in integrated pest management programs. Of the **fungicides** tested, only dispersible S reduced rust mite populations substantially.

IT **33089-61-1**
RL: BIOL (Biological study)
(apple rust mite control by, toxicity to Typhlodromus in relation to)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)

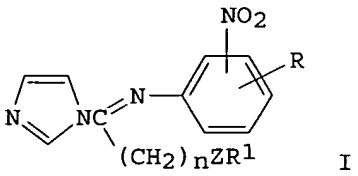


L29 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:544859 HCAPLUS
DOCUMENT NUMBER: 97:144859

TITLE: Fungicidal imidazoles
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57108071	A2	19820705	JP 1980-182886	19801225 <--

PRIORITY APPLN. INFO.: JP 1980-182886 19801225
GI

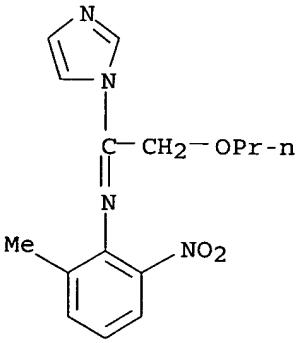


I

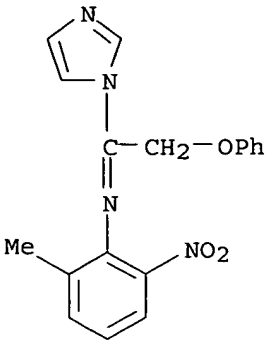
AB Title compds. I (R = halo, alkyl, haloalkyl; R1 = alkyl, alkenyl, Ph; Z = O, S; n = 1, 2), useful as fungicides (data given) were prepared Thus, chlorination of 7 g 2,6-Me(O2N)C6H3NHCOCH2OPr followed by condensation with 3.1 g imidazole gave 3.1 g I (R = Me, R1 = Pr, Z = O, n = 1).

IT **83189-26-8P 83189-27-9P 83189-28-0P**
83189-29-1P 83189-30-4P 83189-31-5P
83189-32-6P 83189-33-7P 83189-34-8P
83189-35-9P 83189-39-3P 83189-40-6P
83189-41-7P 83189-42-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and **fungicidal** activity of)

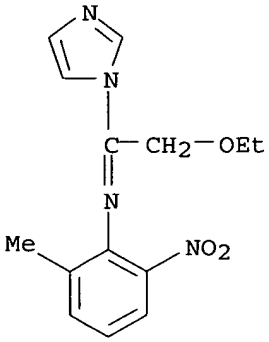
RN 83189-26-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-propoxyethyl]- (9CI) (CA INDEX NAME)



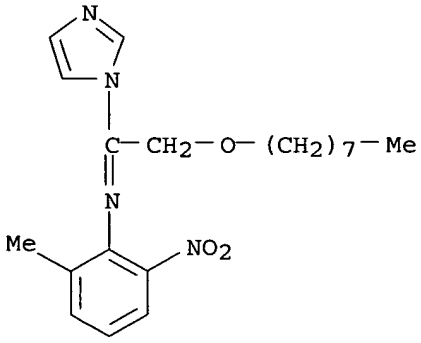
RN 83189-27-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-phenoxyethyl]- (9CI) (CA INDEX NAME)



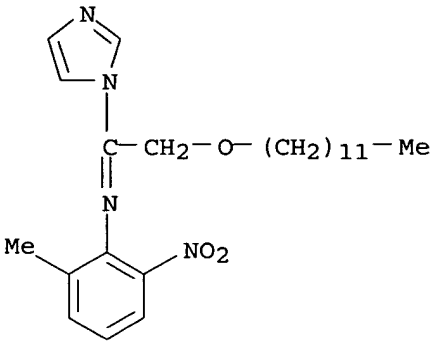
RN 83189-28-0 HCAPLUS
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



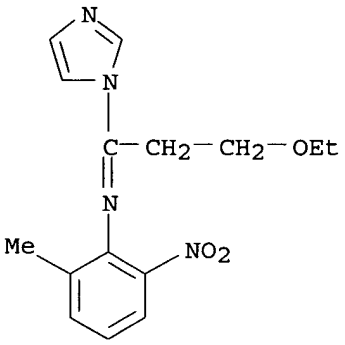
RN 83189-29-1 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-(octyloxy)ethyl]- (9CI) (CA INDEX NAME)



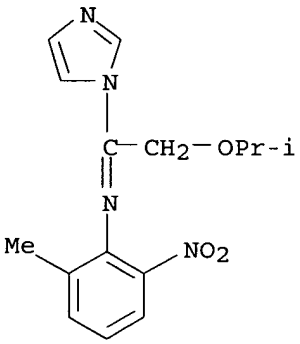
RN 83189-30-4 HCAPLUS
CN 1H-Imidazole, 1-[2-(dodecyloxy)-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



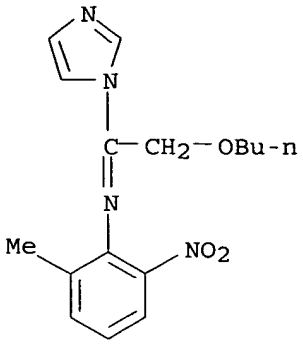
RN 83189-31-5 HCAPLUS
CN 1H-Imidazole, 1-[3-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]propyl]- (9CI) (CA INDEX NAME)



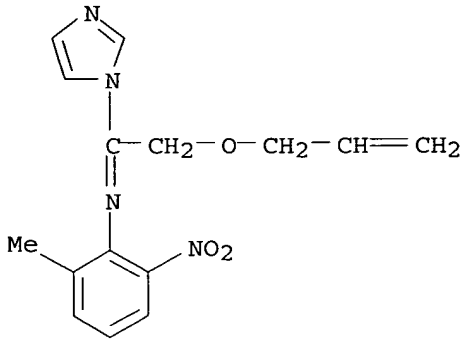
RN 83189-32-6 HCAPLUS
CN 1H-Imidazole, 1-[2-(1-methylethoxy)-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



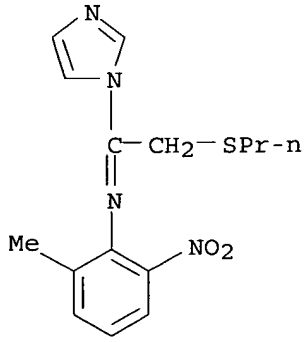
RN 83189-33-7 HCAPLUS
CN 1H-Imidazole, 1-[2-butoxy-1-[(2-methyl-6-nitrophenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



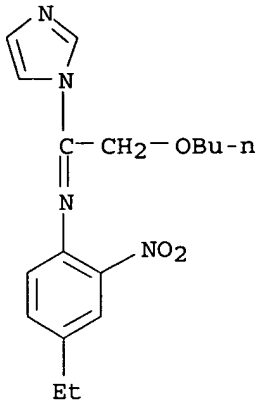
RN 83189-34-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-(2-propenyloxy)ethyl]- (9CI) (CA INDEX NAME)



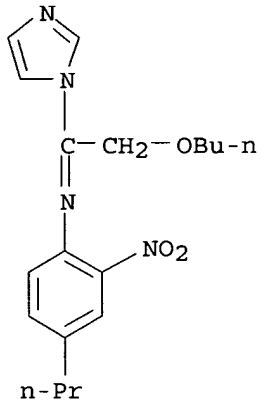
RN 83189-35-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methyl-6-nitrophenyl)imino]-2-(propylthio)ethyl]- (9CI) (CA INDEX NAME)



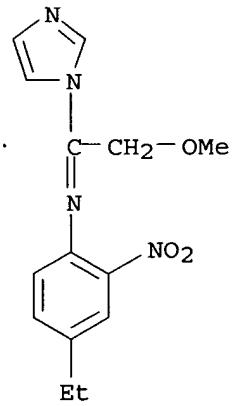
RN 83189-39-3 HCAPLUS
CN 1H-Imidazole, 1-[2-butoxy-1-[(4-ethyl-2-nitrophenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



RN 83189-40-6 HCAPLUS
CN 1H-Imidazole, 1-[2-butoxy-1-[(2-nitro-4-propylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)

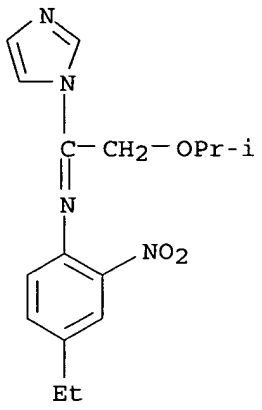


RN 83189-41-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(4-ethyl-2-nitrophenyl)imino]-2-methoxyethyl]- (9CI) (CA INDEX NAME)



RN 83189-42-8 HCAPLUS

CN 1H-Imidazole, 1-[1-[(4-ethyl-2-nitrophenyl)imino]-2-(1-methylethoxy)ethyl]- (9CI) (CA INDEX NAME)

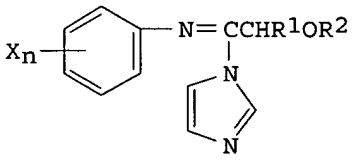


L29 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:470004 HCAPLUS
DOCUMENT NUMBER: 91:70004
TITLE: Imidazoles fungicides
INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Nakada, Akira; Mizuno, Masami
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54024872	A2	19790224	JP 1977-89940	19770727 <--
JP 60019752	B4	19850517		
US 4208411	A	19800617	US 1978-886558	19780314 <--
IL 54292	A1	19830615	IL 1978-54292	19780315 <--
SE 7803175	A	19781001	SE 1978-3175	19780320 <--
SE 437156	B	19850211		
SE 437156	C	19850530		
CA 1093562	A1	19810113	CA 1978-299424	19780321 <--
GB 1591212	A	19810617	GB 1978-11356	19780322 <--
FR 2385703	A1	19781027	FR 1978-8512	19780323 <--
FR 2385703	B1	19800208		
AT 7802085	A	19801015	AT 1978-2085	19780323 <--
AT 362357	B	19810511		
IN 147216	A	19791222	IN 1978-CA338	19780329 <--
PL 110759	B1	19800731	PL 1978-205657	19780329 <--
DD 144407	C	19801015	DD 1978-213994	19780329 <--
PL 118661	B1	19811031	PL 1978-215825	19780329 <--
BR 7801968	A	19790529	BR 1978-1968	19780330 <--
ES 468381	A1	19791001	ES 1978-468381	19780330 <--
CS 199723	P	19800731	CS 1978-2043	19780330 <--
SU 793357	D	19801230	SU 1978-2595954	19780330 <--
DK 7801439	A	19781001	DK 1978-1439	19780331 <--
DK 157490	B	19900115		

DK 157490	C	19900611			
NL 7803468	A	19781003	NL 1978-3468		19780331 <--
NL 172745	B	19830516			
NL 172745	C	19831017			
DE 2814041	A1	19781005	DE 1978-2814041		19780331 <--
DE 2814041	B2	19791206			
DE 2814041	C3	19800807			
AU 504470	B1	19791018	AU 1978-34660		19780331 <--
HU 23487	O	19820928	HU 1978-NI212		19780331 <--
HU 180896	B	19830530			
CH 636088	A	19830513	CH 1978-3482		19780331 <--
SU 745364	D	19800630	SU 1978-2665907		19780922 <--
AT 8002870	A	19810915	AT 1980-2870		19800529 <--
AT 366551	B	19820426			
PRIORITY APPLN. INFO.:			JP 1977-35236	A	19770331
			JP 1977-89940	A	19770727
			AT 1978-2085	A	19780323

GI



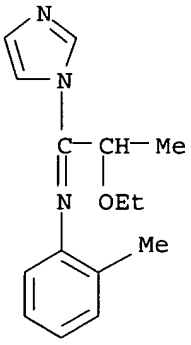
I

AB Imidazole derivs. I (R1 = alkyl; R2 = alkyl, alkenyl, or Ph; X = halo, alkyl, haloalkyl, or NO2; n = 1 or 2) are fungicides. Thus, 200 ppm 1-[1-[(2-bromophenyl)imino]-2-ethoxypropyl]imidazole [68693-77-6] controlled Spherotheca fuliginea infection. Synthesis is presented.

IT **68693-86-7P 68694-01-9P 68694-03-1P 70790-73-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and **fungicidal** activity of)

RN 68693-86-7 HCAPLUS

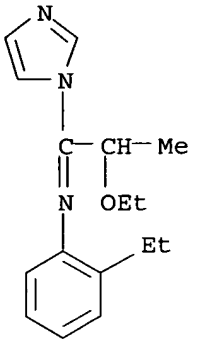
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



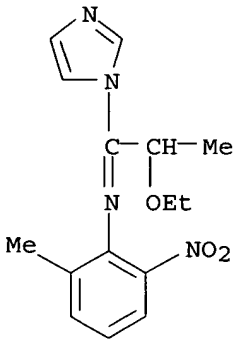
RN 68694-01-9 HCAPLUS

CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-ethylphenyl)imino]propyl]- (9CI) (CA

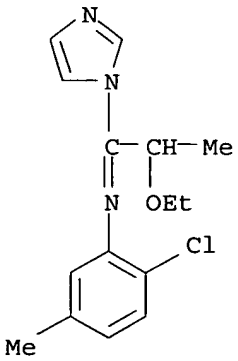
INDEX NAME)



RN 68694-03-1 HCAPLUS
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]propyl]- (9CI) (CA INDEX NAME)



RN 70790-73-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-chloro-5-methylphenyl)imino]-2-ethoxypropyl]- (9CI) (CA INDEX NAME)



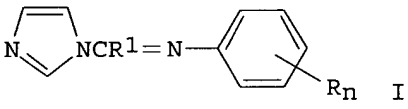
L29 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:38917 HCAPLUS
DOCUMENT NUMBER: 90:38917

TITLE: Fungicidal imidazole derivatives
INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Kataoka, Masaaki; Nakada, Akira; Mizuno, Masami
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2814041	A1	19781005	DE 1978-2814041	19780331 <--
DE 2814041	B2	19791206		
DE 2814041	C3	19800807		
JP 53135975	A2	19781128	JP 1977-35236	19770331 <--
JP 60001315	B4	19850114		
JP 54024872	A2	19790224	JP 1977-89940	19770727 <--
JP 60019752	B4	19850517		

PRIORITY APPLN. INFO.: JP 1977-35236 A 19770331
JP 1977-89940 A 19770727

GI

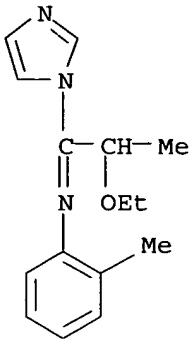


I

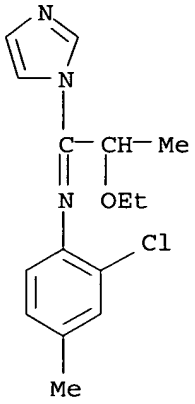
AB The imidazole derivs. I (R = halogen, alkyl, haloalkyl; n = 1, 2; R1 = PhCH2, alkoxy-, alkenoyloxy-, or phenoxyalkyl) and their metal complexes were prepared for use as fungicides. Thus, EtOCHMeCONHC6H4Br-2 reacted with PCl5 and imidazole in CHCl3 to give I (R = 2-Br, R1 = CHMeOEt), which at 200 ppm gave 100% control of Botrytis cinerea on beans.

IT **68693-86-7P 68693-95-8P 68694-01-9P 68694-03-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and **fungicidal** activity of)

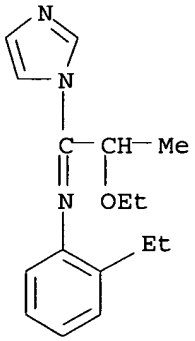
RN 68693-86-7 HCAPLUS
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



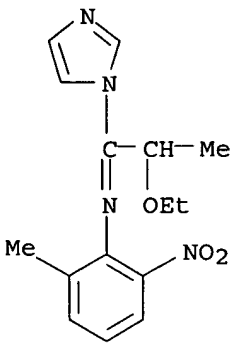
RN 68693-95-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-chloro-4-methylphenyl)imino]-2-ethoxypropyl]- (9CI) (CA INDEX NAME)



RN 68694-01-9 HCAPLUS
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-ethylphenyl)imino]propyl]- (9CI) (CA INDEX NAME)



RN 68694-03-1 HCAPLUS
CN 1H-Imidazole, 1-[2-ethoxy-1-[(2-methyl-6-nitrophenyl)imino]propyl]- (9CI) (CA INDEX NAME)



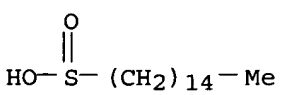
L29 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:501873 HCAPLUS
DOCUMENT NUMBER: 89:101873
TITLE: Fungicidal and bactericidal agents
INVENTOR(S): Guenther, Eberhard; Kochmann, Werner; Mueller, Siegfried; Naumann, Kurt; Reimann, Wolfgang; Roethling, Tilo; Schulz, Heinz; Thalheim, Gerhard; Toepfer, Juergen; Weidner, Karl Friedrich
PATENT ASSIGNEE(S): VEB Chemiekombinat Bitterfeld, Ger. Dem. Rep.
SOURCE: Ger. (East), 15 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 127377	Z	19770921	DD 1976-194637	19760906 <--
PRIORITY APPLN. INFO.:			DD 1976-194637	A1 19760906

AB The quaternary immonium compds. [R1R2C:N+HR3] X- and the quaternary ammonium compds. [R1R2R4N+H] X- (R1 = H or alkyl; R2 = alkyl, aryl, mono- and dialkylamino; R3 = alkyl, substituted alkyl, aralkyl, substituted aryl; R4 = C1-17 alkyl; X- = sulfinate, sulfonate, thiophosphonate, etc) are bactericides and fungicides. Thus 0.1% [Me2NCH:N+HC6H4Cl-o]C15H31SO2- [67038-16-8] totally controlled Phytophthora infestans on tomato.
IT **67037-70-1 67037-71-2 67037-75-6 67037-76-7 67037-85-8**
RL: BIOL (Biological study)
(bactericide and **fungicide**)
RN 67037-70-1 HCAPLUS
CN 1-Pentadecanesulfinic acid, compd. with N,N-dimethyl-N'-(2-methylphenyl)methanimidamide (1:1) (9CI) (CA INDEX NAME)

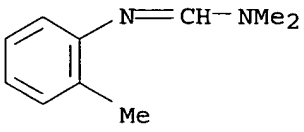
CM 1

CRN 67037-68-7
CMF C15 H32 O2 S



CM 2

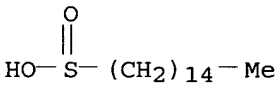
CRN 10278-71-4
CMF C10 H14 N2



RN 67037-71-2 HCAPLUS
CN 1-Pentadecanesulfinic acid, compd. with N'-(2-ethylphenyl)-N,N-dimethylmethanimidamide (1:1) (9CI) (CA INDEX NAME)

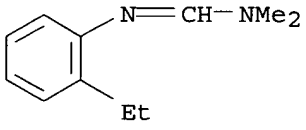
CM 1

CRN 67037-68-7
CMF C15 H32 O2 S



CM 2

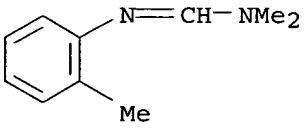
CRN 62330-87-4
CMF C11 H16 N2



RN 67037-75-6 HCAPLUS
CN Benzenesulfinic acid, 4-methyl-, compd. with N,N-dimethyl-N'-(2-methylphenyl)methanimidamide (1:1) (9CI) (CA INDEX NAME)

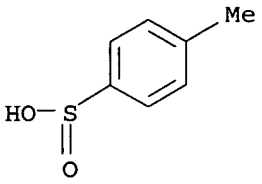
CM 1

CRN 10278-71-4
CMF C10 H14 N2



CM 2

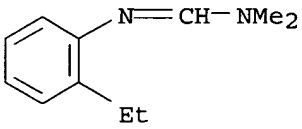
CRN 536-57-2
CMF C7 H8 O2 S



RN 67037-76-7 HCAPLUS
CN Benzenesulfinic acid, 4-methyl-, compd. with N'-(2-ethylphenyl)-N,N-dimethylmethanimidamide (1:1) (9CI) (CA INDEX NAME)

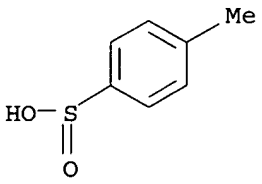
CM 1

CRN 62330-87-4
CMF C11 H16 N2



CM 2

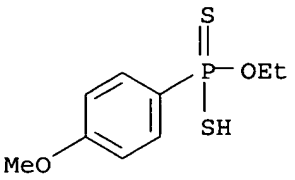
CRN 536-57-2
CMF C7 H8 O2 S



RN 67037-85-8 HCAPLUS
CN Phosphonodithioic acid, (4-methoxyphenyl)-, O-ethyl ester, compd. with N,N-dimethyl-N'-(2-methylphenyl)methanimidamide (1:1) (9CI) (CA INDEX NAME)

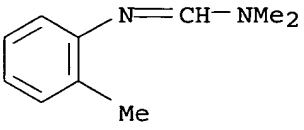
CM 1

CRN 67037-84-7
CMF C9 H13 O2 P S2



CM 2

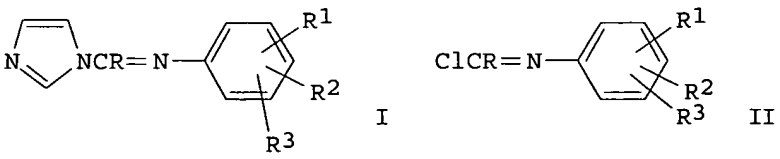
CRN 10278-71-4
CMF C10 H14 N2



L29 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:443413 HCAPLUS
DOCUMENT NUMBER: 89:43413
TITLE: Imidazole derivatives
INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Kataoka, Masaaki
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53015372	A2	19780213	JP 1976-89718	19760729 <--
JP 60019298	B4	19850515		

PRIORITY APPLN. INFO.: JP 1976-89718 A 19760729
GI

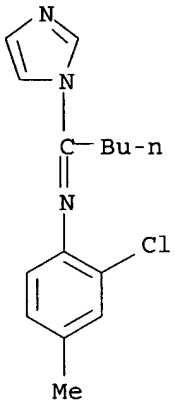


AB Fifty-nine imidazoles I (R = alkyl, cycloalkyl; R1, R2, R3 = H, halo, NO2, alkyl, haloalkyl, alkoxy) were prepared by reaction of II with imidazole in the presence of a base. I had fungicidal activity against Botrytis einerea, Helminthosproium maydis, and Rhizoctonia solani. Thus, a mixture of 7 g N-(2,4,6-trimethylphenyl)pentaneamide and 7.4 g PCl5 in CHCl3 was refluxed 1 h, concentrated, 2.5 g imidazole in CHCl3 added, the mixture stirred 30

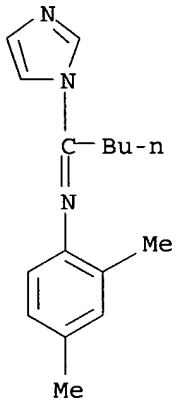
min at 50-60°, 3.5 g Et3N in CHCl3 added with ice cooling, and the whole stirred 30 min at 50-60° to give 5.15 g I (R = Bu, R1 = 2-Me, R2 = 4-Me, R3 = 6-Me).

IT **64352-13-2P 64352-15-4P 64352-27-8P**
64352-28-9P 64352-29-0P 64352-30-3P
64352-31-4P 64352-32-5P 66654-95-3P
66655-01-4P 66655-11-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and **fungicidal** activity of)

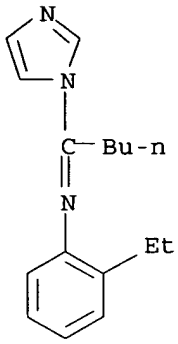
RN 64352-13-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-chloro-4-methylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



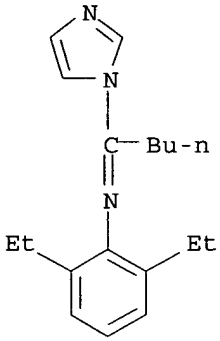
RN 64352-15-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,4-dimethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



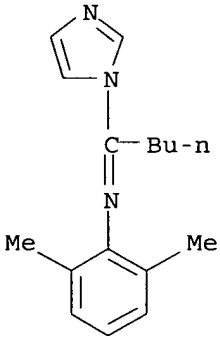
RN 64352-27-8 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-ethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



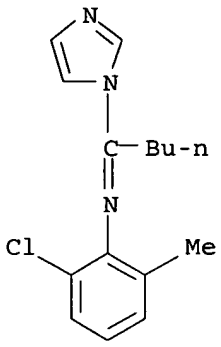
RN 64352-28-9 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-diethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



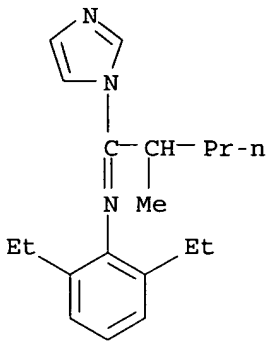
RN 64352-29-0 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-dimethylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



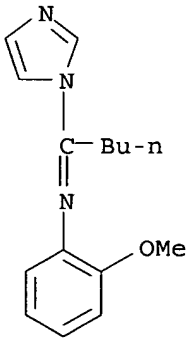
RN 64352-30-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-chloro-6-methylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



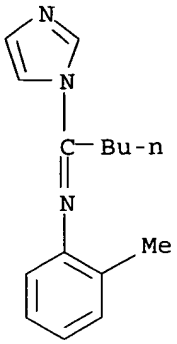
RN 64352-31-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-diethylphenyl)imino]-2-methylpentyl]- (9CI) (CA INDEX NAME)



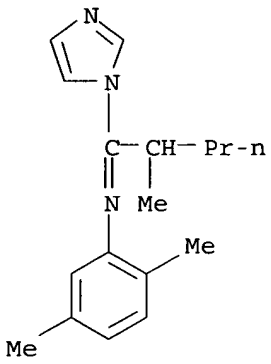
RN 64352-32-5 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methoxyphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



RN 66654-95-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methylphenyl)imino]pentyl]- (9CI) (CA INDEX NAME)



RN 66655-01-4 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,5-dimethylphenyl)imino]-2-methylpentyl]- (9CI) (CA INDEX NAME)



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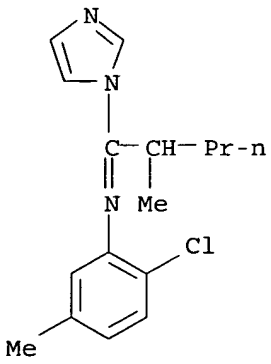


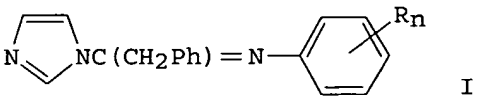
L29 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:121179 HCAPLUS
DOCUMENT NUMBER: 88:121179
TITLE: Imidazole derivatives

INVENTOR(S): Ikura, Katsuyata; Katsuura, Kiyoshi; Nakata, Akira; Kataoka, Masaaki
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52113962	A2	19770924	JP 1976-29878	19760322 <--

PRIORITY APPLN. INFO.: JP 1976-29878 A 19760322

GI

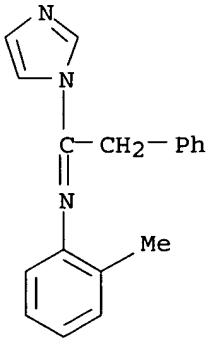


I

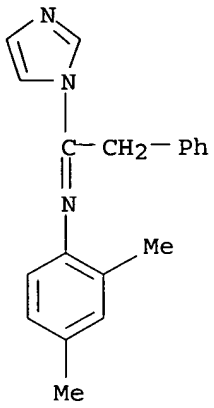
AB Ten imidazole derivs. I (R = halo, Me, MeO; n = 1,2) were prepared by reaction of RnC6H5-nN:CXCH2Ph with imidazole (II). I are useful as agricultural fungicides; the data were given against Sphaerotheca fuliginta, Helminthosporium maydis, and Rhizoctonia solani. Thus, a mixture of 8 g 2,4-MeClC6H3NHCOCH2Ph and 7.8 g PCl5 was refluxed 1 h at 100-130°, concentrated, 2.4 g II in CHCl3 added with ice cooling, 4 g Et3N in CHCl3 added, and the whole stirred 30 min at room temperature and 1 h at 60° to give 4.6 g I (R = 2-Me, 4-Cl; n = 2).

IT **65903-27-7P 65903-30-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and **fungicidal** activity of)

RN 65903-27-7 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2-methylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



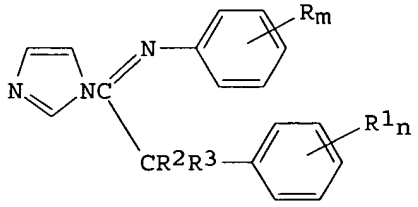
RN 65903-30-2 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,4-dimethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



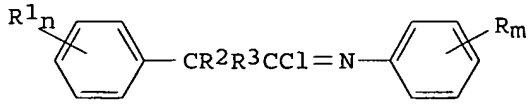
L29 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:105341 HCAPLUS
DOCUMENT NUMBER: 88:105341
TITLE: Imidazole derivatives
INVENTOR(S): Ikura, Katsumita; Katsuura, Kiyoshi; Kataoka, Masaaki
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52139061	A2	19771119	JP 1976-53850	19760513 <--
JP 60019297	B4	19850515		

PRIORITY APPLN. INFO.: JP 1976-53850 A 19760513
GI



I



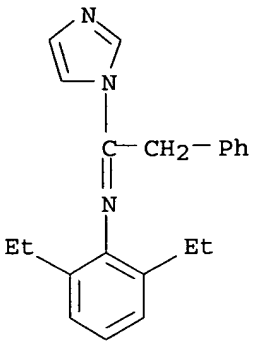
II

AB Thirteen title derivs. I (R = Me, Et, Cl; m = 1-3; R1 = H, Me, MeO, Cl, NO2; n = 0-2; R2, R3 = H, Me, Bu) were prepared by reaction of II with imidazole in the presence of acid-binders. I are useful as agricultural fungicides; the data were given against Botrytis cinerea, Rhizoctonia solani, and Sphaerotheca fuliginea. Thus, a mixture of 32 g

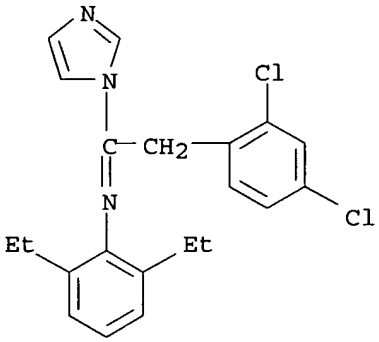
PhCH2CONHC6H3Et2-2,6 and 27.5 g PCl5 in CHCl3 was refluxed 1 h, concentrated, CHCl3 added, 9 g imidazole added, the whole stirred 30 min at 50-6°, 13.3 g Et3N in CHCl3 added with ice cooling, and the whole stirred 30 min at 50-60° to give 25.2 g I (Rm = 2-Et and 6-Et, R1 = R2 = R3 = H).

IT **65807-76-3P 65807-82-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and agricultural **fungicidal** activity of)

RN 65807-76-3 HCAPLUS
CN 1H-Imidazole, 1-[1-[(2,6-diethylphenyl)imino]-2-phenylethyl]- (9CI) (CA INDEX NAME)



RN 65807-82-1 HCAPLUS
CN 1H-Imidazole, 1-[2-(2,4-dichlorophenyl)-1-[(2,6-diethylphenyl)imino]ethyl]- (9CI) (CA INDEX NAME)



L29 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:534746 HCAPLUS
DOCUMENT NUMBER: 87:134746
TITLE: Alkyl 4-[o-(substituted methyleneamino)-phenyl]-3-thioallophanate miticides and fungicides
INVENTOR(S): Wommack, Joel Benjamin, Jr.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 16 pp. Division of U.S. 3,958,007.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

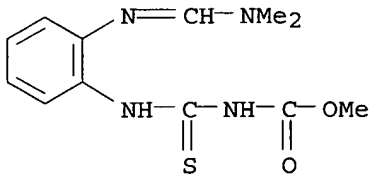
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4018926	A	19770419	US 1976-648760	19760113 <--
US 3836569	A	19740917	US 1969-865947	19691013 <--
US 3958007	A	19760518	US 1974-473156	19740524 <--
PRIORITY APPLN. INFO.:			US 1969-865947	A2 19691013
			US 1974-473156	A3 19740524

AB O-H2NC6H4NHCSNHCO2Me (I) was treated with aldehydes in C6H6 at reflux in the presence of p-MeC6H4SO3H to give .apprx.25 o-(RCH:N)C6H4NHCSNHCO2Me (II; R = Ph, substituted phenyl, furyl, pyridyl, quinolyl). I was also heated with (MeO)3CH in C6H6 and the product (II, R = MeO) was treated with Me2NH to give II (R = Me2N). Salts, e.g., Na and Ca, were also prepared from some II. Miticidal and fungicidal activity of some II are given, e.g., apple trees sprayed with II (R = 2,4-Cl2C6H3) were free of apple scab disease as against the unsprayed trees which were heavily infected with apple scab.

IT **54106-68-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for use as miticide and **fungicide**)

RN 54106-68-2 HCAPLUS

CN Carbamic acid, [[[2-[[(dimethylamino)methylene]amino]phenyl]amino]thioxomethyl]-, methyl ester (9CI) (CA INDEX NAME)



L29 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:473221 HCAPLUS

DOCUMENT NUMBER: 83:73221

TITLE: Fungicide movement in soils

AUTHOR(S): Helling, Charles S.; Dennison, D. Gayle; Kaufman, Donald D.

CORPORATE SOURCE: Agric. Res. Cent. West, ARS, Beltsville, MD, USA

SOURCE: Phytopathology (**1974**), 64(8), 1091-100
CODEN: PHYTAJ; ISSN: 0031-949X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

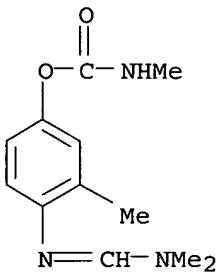
AB A method combining a bioassay with soil thin-layer chromatog. (soil TLC) was developed to determine the mobility of **fungicides** in soils. After leaching soil TLC plates with water, 10 soil fungi (Aspergillus fumigatus, Diploidia zeae, 2 isolates of Fusarium moniliforme, F. roseum, Helminthosporium sativum, Penicillium chrysogenum, P. rugulosum, Rhizoctonia solani, and Trichoderma viride) and an alga (Chlorella sorokiniana) were tested as visualizing agents by spraying plates with a liquid nutrient agar suspension of the organism. Plates were incubated at 100% relative humidity and .apprx.28° until inhibition or stimulation zones appeared, usually at 1-4 days. The mobility of 38 pesticides (33 **fungicides**, 3 insecticides, 1 acaricide,and 1 herbicide) in Hagerstown silty clay loam was determined The relatively mobile compds. were cycloheximide (I) [66-81-9], cycloheximide oxime [20362-15-6], Dexon [140-56-7], the mercaptide component of Ceresan L,

formetanate [22259-30-9], formparanate [**35452-92-7**], and oxycarboxin [5259-88-1]. Immobile compds. included chloranil [118-75-2], chloroneb [2675-77-6], DCNA [99-30-9], dichlone [117-80-6], dodine [2439-10-3], hexachlorophene [70-30-4], Morestan [2439-01-2], PCNB [82-68-8], TCNA [2438-88-2], Terrazole [2593-15-9], and zineb (II) [12122-67-7]. Of the 11 organisms tested, T. viride and C. sorokiniana were sensitive to the greatest number of **fungicides.** The mobility order nabam [142-59-6] > maneb [12427-38-2] > II was confirmed by bioassay and autoradiog. In 5 different soils, movement of these 3 dithiocarbamate **fungicides** was inversely related to soil organic matter content.

IT **35452-92-7**
RL: ANT (Analyte); ANST (Analytical study)
(mobility determination of, in soils, by thin-layer chromatog.)

RN 35452-92-7 HCAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

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=> d stat que l33
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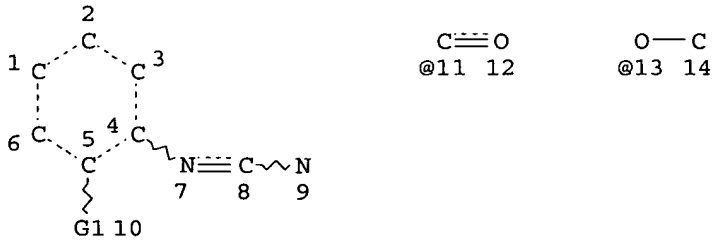

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 1

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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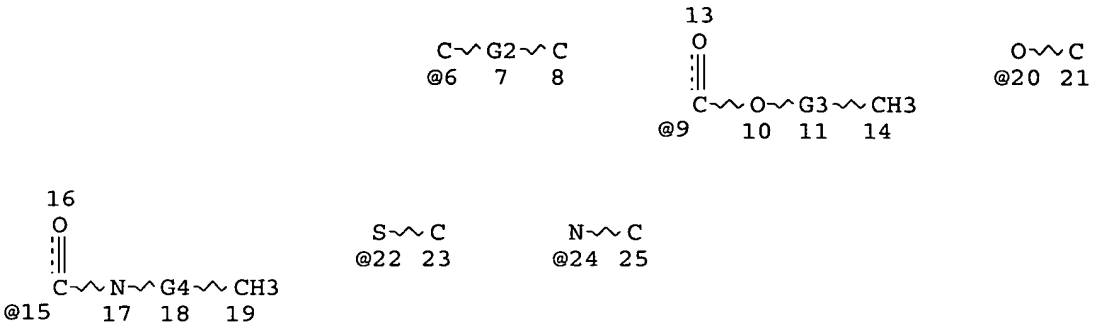
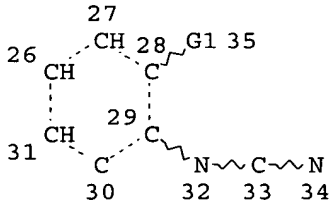
L12 STR





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REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
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DEFAULT MLEVEL IS ATOM
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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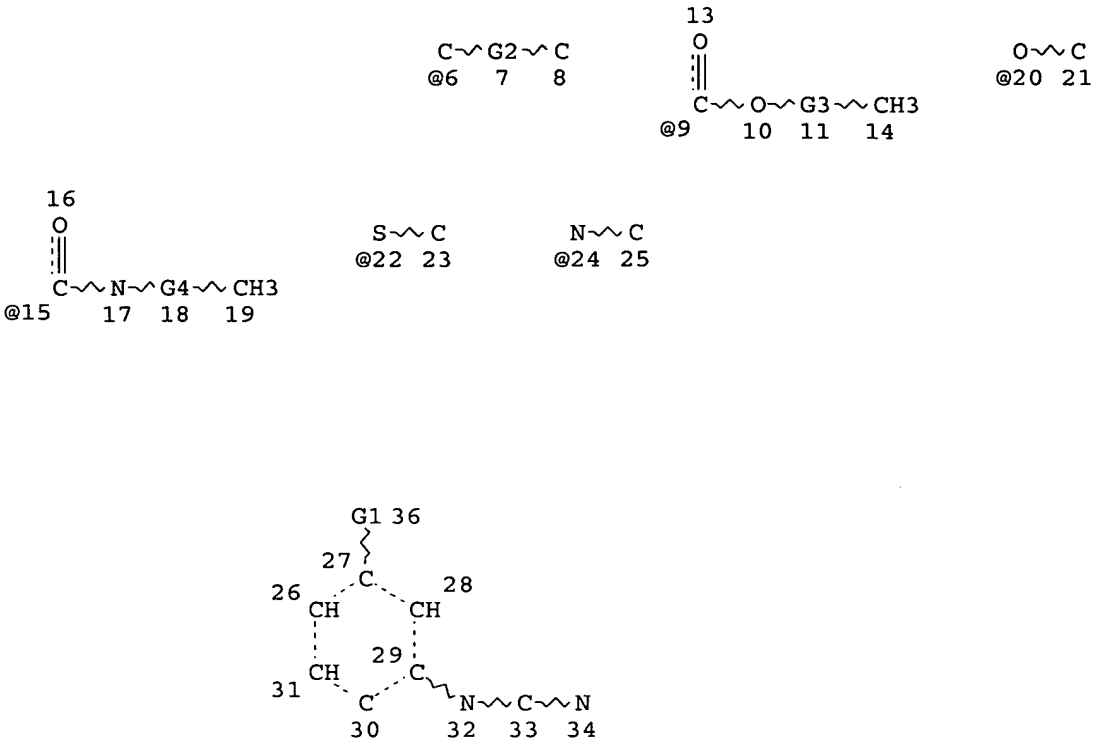

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REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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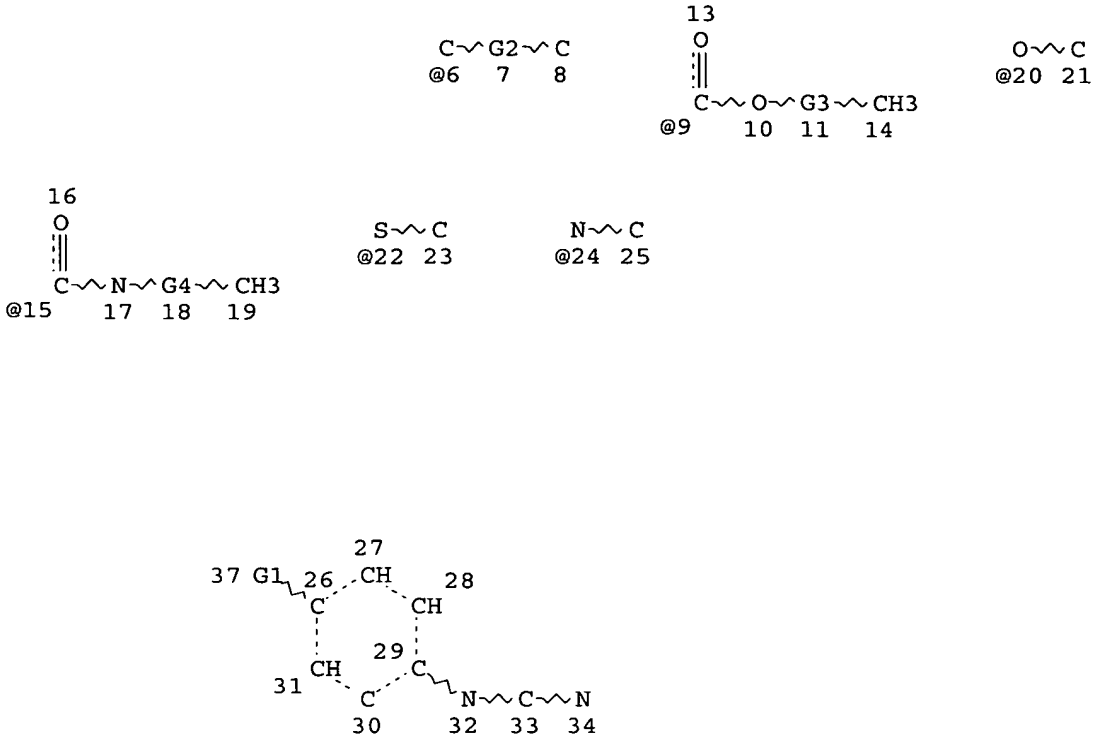

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REP G3=(1-8) C
REP G4=(3-9) C
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NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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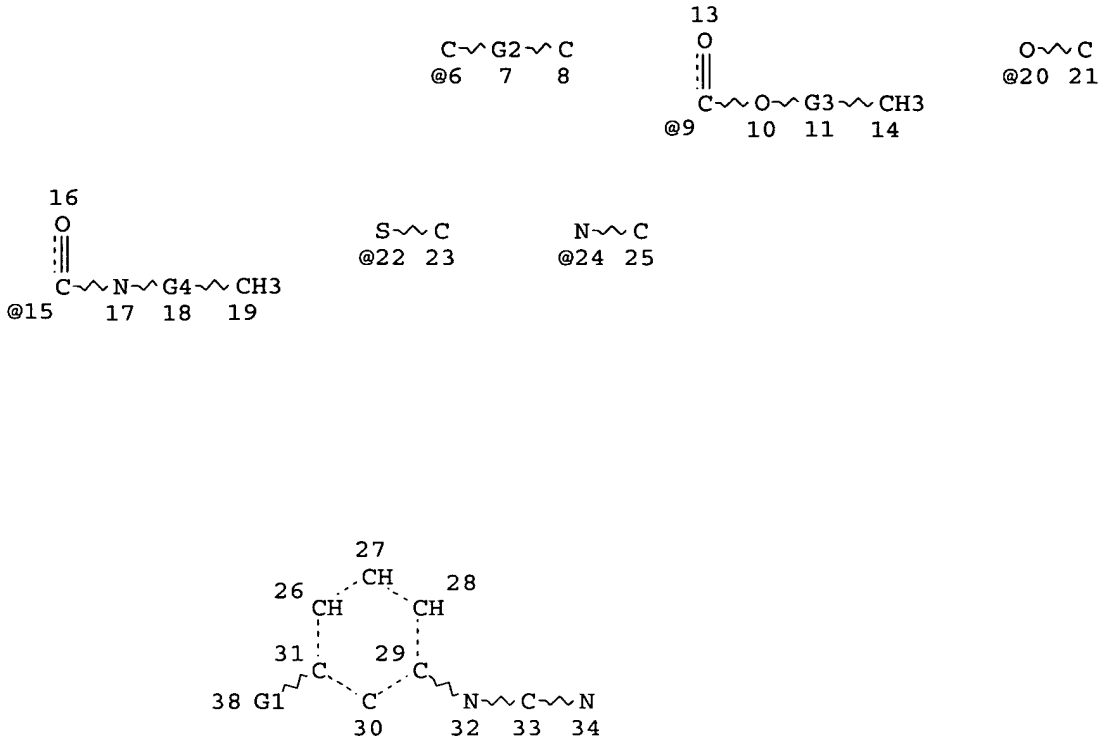

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REP G4=(3-9) C
NODE ATTRIBUTES:
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 29

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L17 8445 SEA FILE=REGISTRY SUB=L11 SSS FUL L13
L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14
L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15
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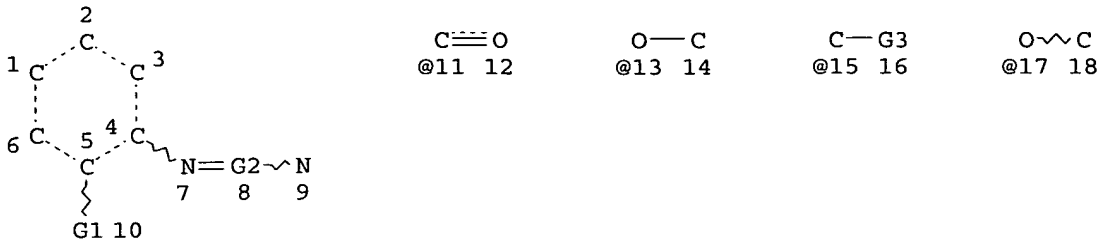
L23 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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RSPEC 1
NUMBER OF NODES IS 24

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L33 ANSWER 1 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:314898 HCAPLUS
DOCUMENT NUMBER: 136:320814
TITLE: Insecticidal 1,8-naphthalenedicarboxamides and their preparation, use, and compositions
INVENTOR(S): Selby, Thomas Paul; Sun, King-Mo
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032856	A2	20020425	WO 2001-US42632	20011011 <--
WO 2002032856	A3	20020704		
WO 2002032856	C2	20040408		
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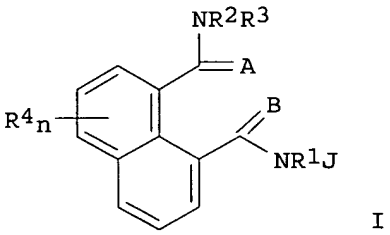
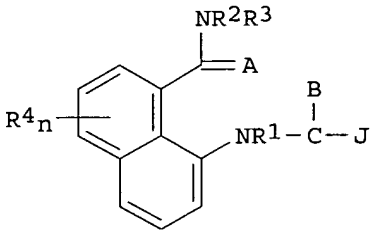
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002030401	A5	20020429	AU 2002-30401	20011011 <--
EP 1326827	A2	20030716	EP 2001-987739	20011011
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004511538	T2	20040415	JP 2002-536040	20011011
BR 2001007384	A	20020924	BR 2001-7384	20020924
US 2004053786	A1	20040318	US 2003-398638	20030404
PRIORITY APPLN. INFO.:			US 2000-240890P P	20001017
			US 2001-323833P P	20010921
			WO 2001-US42632 W	20011011

OTHER SOURCE(S): MARPAT 136:320814
GI



I



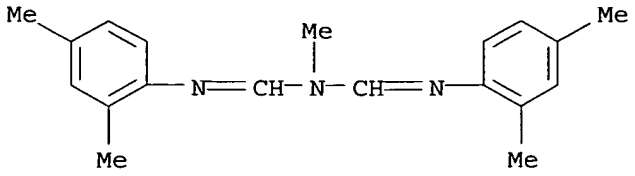
II

AB Compds. I and II (Markush included) are prepared as insecticides. The compds. I and II and their N-oxides and agriculturally suitable salts are useful for controlling invertebrate pests in compns. comprising at least one of a **surfactant**, a solid **diluent** or a liquid **diluent**, and, optionally, at least one addnl. biol. active compound or agent selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonist,s insecticidal urea,s and juvenile hormone mimics.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(in compns. with insecticidal 1,8-naphthalenedicarboxamides)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



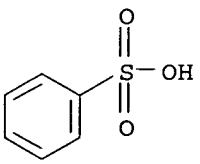
L33 ANSWER 2 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:578597 HCAPLUS
DOCUMENT NUMBER: 135:124156
TITLE: Bactericide combinations in detergents
INVENTOR(S): Elsmore, Richard; Houghton, Mark Phillip
PATENT ASSIGNEE(S): Robert McBride Ltd., UK
SOURCE: Brit. UK Pat. Appl., 53 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2354771	A1	20010404	GB 1999-23253	19991001 <--
PRIORITY APPLN. INFO.:			GB 1999-23253	19991001

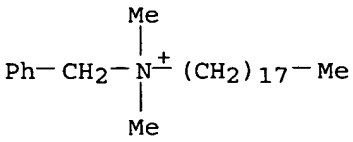
AB The detergent comprises a bactericide in combination with an anionic, cationic, nonionic or amphoteric **surfactant** which has a C12-18 alkyl group as the longest chain attached to the hydrophilic moiety. Creduret 50 (hydrogenated ethoxylated castor oil) 50, citric acid 12, formalin 10, sodium alkyl benzene sulfonate (C12-20) alkyl 1, perfume white line 0.5, detergent enzyme savingase 0.2, and bactericide Pr 4-hydroxybenzoate 1.0 parts formed a detergent, showing reduction activity after contact 2.

IT **98-11-3D**, Benzenesulfonic acid, mono-C10-14-alkyl derivs., compds. with Me 1H-benzimidazol-2-ylcarbamate, uses **122-19-0** **139-08-2** **151-21-3**, uses **577-11-7** **683-10-3** **1119-94-4** **1119-97-7** **9004-98-2** **15809-19-5** **33089-61-1**
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); BIOL (Biological study); USES (Uses)
(bactericide combinations in detergents)

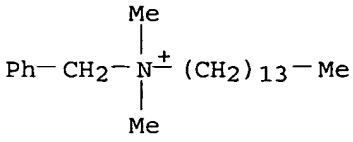
RN 98-11-3 HCAPLUS
CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



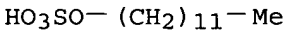
RN 122-19-0 HCAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



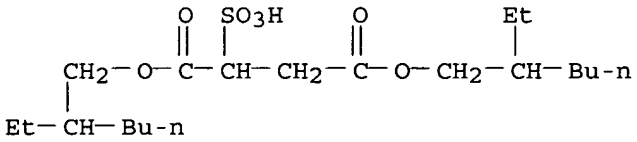
RN 139-08-2 HCAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



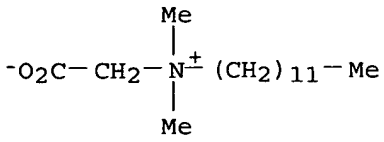
RN 151-21-3 HCAPLUS
CN Sulfuric acid monododecyl ester sodium salt (8CI, 9CI) (CA INDEX NAME)



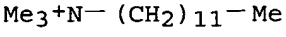
RN 577-11-7 HCAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



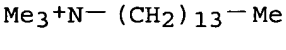
RN 683-10-3 HCAPLUS
CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



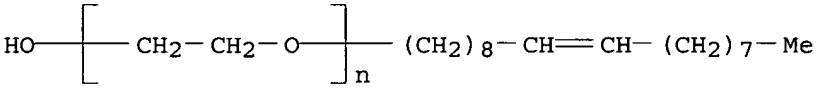
RN 1119-94-4 HCAPLUS
CN 1-Dodecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



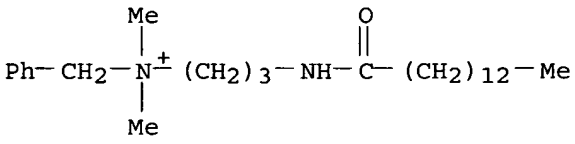
RN 1119-97-7 HCAPLUS
CN 1-Tetradecanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



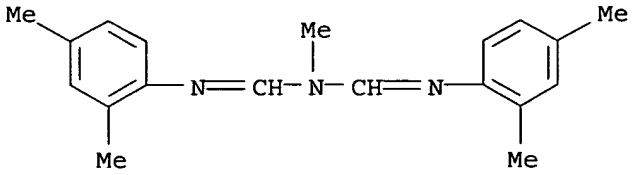
RN 9004-98-2 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(9Z)-9-octadecenyl-ω-hydroxy- (9CI) (CA INDEX NAME)



RN 15809-19-5 HCAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-[3-[(1-oxotetradecyl)amino]propyl]-, chloride (9CI) (CA INDEX NAME)



RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



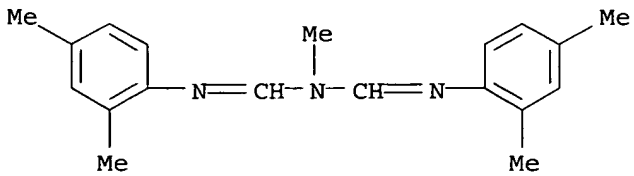
L33 ANSWER 3 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:215406 HCAPLUS
DOCUMENT NUMBER: 134:218324
TITLE: Mineral oil-containing insecticide and miticide for protecting plant
INVENTOR(S): Wang, Yuwan; Pan, Zhende; Dai, Xiaoxi; Na, Shun
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 5 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1267451	A	20000927	CN 1999-103377	19990323 <--
PRIORITY APPLN. INFO.:			CN 1999-103377	19990323

AB The composite insecticide and miticide is composed of mineral oil 3-90, insecticide and miticide 0.05-40, emulsifier 3-50, penetrating agent 0-5%, and solvent 0-5%. The mineral oil is selected from petroleum cracking product; the insecticide and miticide from abamectin, liuyangmycin, chlorpyrifos, chlorpyrifos-Me, isocarbophos, fenthion, carbosulfan, methomyl, high effect cypermethrin, brofluthrinate, cyfluthrin, fenpropathrin, fenvalerate, imidacloprid, amitraz, azocyclotin, etc.; the emulsifier from cationics, nonionics or anionics; the solvent from xylene, ethanol, isopropanol or acetone; and the penetrating agent from JFC. Because the mineral oil impairs the respiration of the insect and enhances penetration of the agrochems., the insecticide and miticide is highly effective against insects.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(mineral oil-containing insecticide and miticide for protecting plant)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 4 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:824048 HCAPLUS
DOCUMENT NUMBER: 133:345923
TITLE: Mixtures of **surfactants** used as wetting agents and/or emulsifiers in agrochemical preparations
INVENTOR(S): Fornara, Dario; Bohus, Peter; Colombo, Alberto
PATENT ASSIGNEE(S): Lamberti S.p.A., Italy
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000069261	A1	20001123	WO 2000-EP4375	20000516 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IT 99MI1086	A1	20001120	IT 1999-MI1086	19990518 <--
IT 1312111	B1	20020404		
CA 2373480	AA	20001123	CA 2000-2373480	20000516 <--
EP 1179979	A1	20020220	EP 2000-931220	20000516 <--
EP 1179979	B1	20030205		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 232045	E	20030215	AT 2000-931220	20000516
PT 1179979	T	20030630	PT 2000-931220	20000516
ES 2191624	T3	20030916	ES 2000-931220	20000516
AU 768291	B2	20031204	AU 2000-49219	20000516
US 6617301	B1	20030909	US 2001-979760	20011124

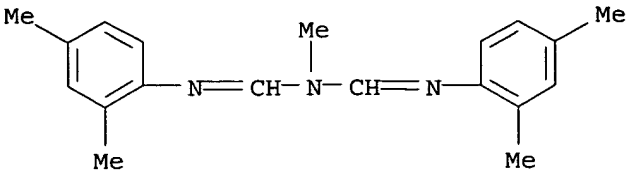
PRIORITY APPLN. INFO.: IT 1999-MI1086 A 19990518
WO 2000-EP4375 W 20000516

OTHER SOURCE(S): MARPAT 133:345923

AB **Surfactant** mixture to be used as wetting and/or emulsifying agents in pesticide agrochem. compns. comprises: (a) a alkylpolyglucoside R-O-Gx, (b) an anionic derivative of alkylpolyglucoside (R-O-Gx)n-Dy, and (c) an anionic derivative of a fatty alc. R-O-D [R C6-20 (un)saturated, (un)branched aliphatic group; G = reduced saccharide residue; D = acyl residue of a (un)saturated, (un)branched, (un)substituted carboxylic acid having a C2-8 aliphatic chain, in which at least one carboxylic group is salified or in acid form.; x = 1-10; n = 1 - (m-1), where m = number of carboxylic groups in the acid that originates D; y = 1-10],.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(mixts. of **surfactants** used as wetting agents/emulsifiers in agrochem. prepns. containing)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

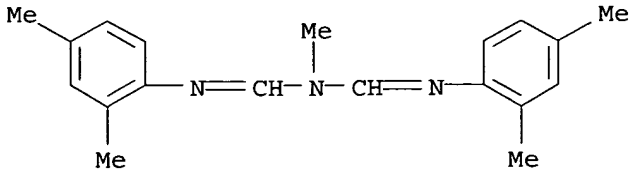
L33 ANSWER 5 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:342678 HCAPLUS
DOCUMENT NUMBER: 132:318919
TITLE: Manufacture of long lasting household insecticide
INVENTOR(S): Bai, Zhixin
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1214863	A	19990428	CN 1998-117568	19980825 <--
CN 1120661	B	20030910		
PRIORITY APPLN. INFO.:			CN 1998-117568	19980825

AB The insecticide comprises organic solvent 3.0-5.0%, water 80-95%, **surfactant** 0.5-4.0%, organic contact insecticide (non-organophosphorus insecticide) 2.9-5.5%, synergist 0.05-0.5%, antioxidant 0.1-2.0%, UV absorbent 0.8-6.0%, high temperature-tolerant agent 0.05-7.5%, alkali-resistant substance (citric acid or HCl) 2.0-4.0%, light stabilizer 0.2-0.5%, and addnl. essence. The organic contact insecticide is selected from Me carbamate, neo-pynamin forte, prallethrin, phenothrin, bifenthrin, tau-fluvalinate, shachongshuang, phosfolan, chlordimeform, amitraz, diflubenzuron, fufuchongmi, pyridaben, hexythiazox, and buprofezin.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(manufacture of long lasting household insecticide)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 6 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:84539 HCAPLUS
DOCUMENT NUMBER: 132:104096
TITLE: Water-free concentrate of amitraz insecticide and

clear pour-on formulations thereof
INVENTOR(S): Narayanan, Kolazi S.; Jon, Domingo; Prettypaul, Donald
PATENT ASSIGNEE(S): Isp Investments Inc., USA
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

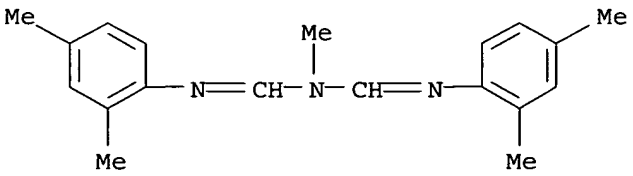
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000004771	A1	20000203	WO 1999-US9981	19990507 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6024972	A	20000215	US 1998-121072	19980721 <--
AU 9939740	A1	20000214	AU 1999-39740	19990507 <--
AU 752907	B2	20021003		
BR 9912116	A	20010502	BR 1999-12116	19990507 <--
EP 1098564	A1	20010516	EP 1999-922835	19990507 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
NZ 509083	A	20020927	NZ 1999-509083	19990507

PRIORITY APPLN. INFO.: US 1998-121072 A 19980721
WO 1999-US9981 W 19990507

AB A water-free concentrate comprising by weight: (a) 3-20 % amitraz, optionally with other agricultural chems., for example, a pyrethroid; (b) 30-80 % nonionic **surfactant** having an HLB <17; and (c) 5-30 % C1-C8 alkylpyrrolidone solvent. Clear, pour-on formulations of about 5-60 % by weight of the concentrate and 40-95 % of an oil are described.

IT **33089-61-1**, Amitraz
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(water-free concentrate of amitraz for pour-on formulations)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 7 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:565866 HCAPLUS
DOCUMENT NUMBER: 131:166532

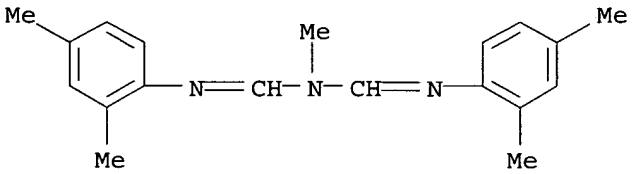
TITLE: Storing pesticides in a water-soluble package
INVENTOR(S): Xie, Min; Rosa, Fred Carl; Mote, Jackie
PATENT ASSIGNEE(S): Uniroyal Chemical Company, Inc., USA; Gustafson, Inc.
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 9943206	A1	19990902	WO 1999-US3102		19990212	<--
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, DE, EE, ES, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SD, SG, SI, SK, SL, TR, TT, UA, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM						
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE						
CA 2285202	AA	19990902	CA 1999-2285202		19990212	<--
AU 9932922	A1	19990915	AU 1999-32922		19990212	<--
PRIORITY APPLN. INFO.:			US 1998-30287	A	19980225	
			WO 1999-US3102	W	19990212	

AB A system and method are provided for storing an active ingredient such as a pesticide or other type of agricultural chemical in a water soluble package. The active ingredient is incorporated in a storage formulation including a hydrophilic, nonaq. solvent, which is capable of dissolving the active ingredient, but not the water soluble package. The storage formulation optionally includes additives such as gelling agents, **surfactants** and/or antifoaming agents.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(storing pesticides in a water-soluble package)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 8 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:265920 HCAPLUS
DOCUMENT NUMBER: 130:278025
TITLE: Stabilized concentrates of water-unstable aza pesticides and oil/water miniemulsions thereof
INVENTOR(S): Jon, Domingo I.; Prettypaul, Donald I.; Benning, Matthew J.; Narayanan, Kolazi S.; Ianniello, Robert M.
PATENT ASSIGNEE(S): ISP Investments Inc., USA
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

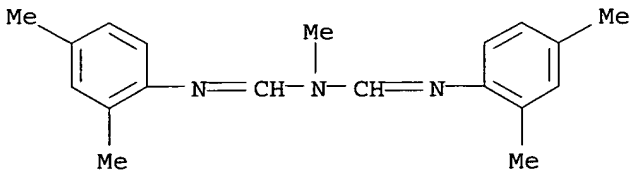
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9919256	A2	19990422	WO 1998-US21462	19981009 <--
WO 9919256	A3	19990624		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9897993	A1	19990503	AU 1998-97993	19981009 <--
EP 1027288	A2	20000816	EP 1998-952245	19981009 <--
EP 1027288	B1	20030903		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 6255350	B1	20010703	US 1998-169697	19981009 <--
AT 248773	E	20030915	AT 1998-952245	19981009

PRIORITY APPLN. INFO.: US 1997-61944P P 19971014
WO 1998-US21462 W 19981009

AB This invention relates to a single-phase emulsifiable concentrate composition comprising: (a) 0.05-25 weight% of a fungicidal and/or herbicidal aza compound; (b) 2-40 weight% of a lactam selected from N-methylpyrrolidone, N-methylcaprolactam, a C8-18 alkylpyrrolidone, and/or a C8-18 caprolactam; (c) 2-20 weight% of a moisture-scavenging agent selected from a liquid molecularly-hindered carbodiimide and/or a mol. sieve; and (d) 10-80 weight% of a mixture of ≥2 nonionic **surfactants**, having a hydrophilic/lipophilic balance >7. The invention also relates to the stable oil-in-water miniemulsions prepared from the above by dilution to 40-99.99 weight% water for a pour-on, dip or spray solution useful in the treatment of animals or plants.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(stabilized concs. and oil/water miniemulsions of)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 9 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:734965 HCAPLUS
DOCUMENT NUMBER: 130:1335
TITLE: Latex-based pesticidal compositions of incompatible ingredients.
INVENTOR(S): Smith, Geoffrey W.; Mulqueen, Patrick J.; Paterson, Eric S.; Cuffe, John

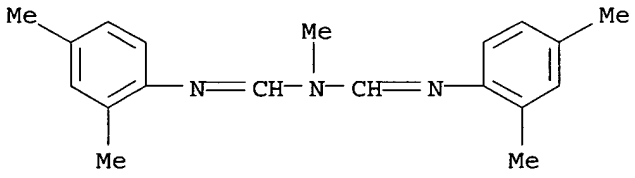
PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA
SOURCE: U.S., 10 pp., Cont. of U.S. Ser. No. 469,427.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5834006	A	19981110	US 1991-790729	19911108 <--
PRIORITY APPLN. INFO.:			US 1990-469427	A1 19900405

AB An agricultural composition, for example, a herbicidal, insecticidal or fungicidal composition, comprising at least a first active pesticidal component, and at least one other active component, the other active component being physicochem., chemical, or biol. incompatible with the first pesticidal component. The composition is in the form of a latex dispersion, containing at least one emulsifying **surfactant** and having a continuous aqueous phase, and at least a first dispersed phase. The first dispersed phase contains particles derived from a latex, and the first pesticidal component is present in the composition wholly within the first dispersed phase. The other active ingredient is present within the continuous phase, or within a second dispersed phase. Suitable polymer latexes are Vinamul 3452, Dow Latex DL420, Dow Latex DL893, etc.

IT **33089-61-1**, Amitraz
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(latex-based compns. of incompatible pesticides)

RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

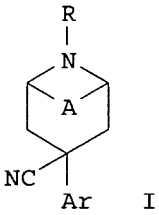
L33 ANSWER 10 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:385481 HCAPLUS
DOCUMENT NUMBER: 129:37517
TITLE: Insecticidal composition for control of resistant insects
INVENTOR(S): Clough, Martin Stephen; Earley, Fergus Gerard Paul; Dunbar, Stuart John
PATENT ASSIGNEE(S): Zeneca Limited, UK; Clough, Martin Stephen; Earley, Fergus Gerard Paul; Dunbar, Stuart John
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 9823158	A1	19980604	WO 1997-GB3056	19971106 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2271747	AA	19980604	CA 1997-2271747	19971106 <--
AU 9748763	A1	19980622	AU 1997-48763	19971106 <--
EP 944319	A1	19990929	EP 1997-911351	19971106 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9713146	A	20000208	BR 1997-13146	19971106 <--
CN 1245397	A	20000223	CN 1997-181510	19971106 <--
SI 20002	C	20000229	SI 1997-20085	19971106 <--
NZ 335421	A	20001124	NZ 1997-335421	19971106 <--
JP 2001504511	T2	20010403	JP 1998-524385	19971106 <--
AP 1068	A	20020513	AP 1999-1537	19971106
W: GM, GH, KE, LS, MW, SL, SD, SZ, UG, ZW				

PRIORITY APPLN. INFO.: GB 1996-24501 A 19961126
WO 1997-GB3056 W 19971106

OTHER SOURCE(S): MARPAT 129:37517
GI



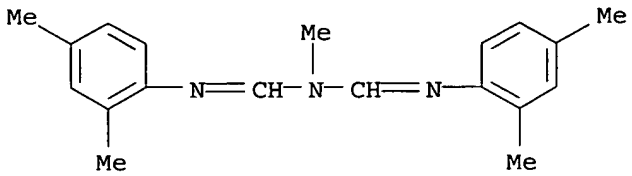
I

AB An insecticidal composition comprising a first insecticide, to which insect pests have developed resistance, an inert carrier or **diluent** and, optionally, one or more surface active agents. The composition further contains I [A = CH2CH2 or CH=CH; Ar = Ph, pyridinyl, pyridazinyl or pyrazinyl, all being optionally substituted with halogen, C1-4 alkyl, C1-4 alkoxy, C2-4 alkenyl, C2-4 alkynyl or cyano; R = H, C1-4 alkyl (optionally substituted with cyano, CO2(C1-4 alkyl) or Ph (itself optionally substituted with halogen, C1-4 alkyl, C1-4 alkoxy, C1-4 haloalkyl or C1-4 haloalkoxy)), C2-4 haloalkyl (the α-carbon being unsubstituted), C3-4 alkenyl or C3-4 alkynyl; provided that when R is alkenyl or alkynyl, it does not have an unsatd. carbon atom bonding directly to the ring N] or an acid addition salt, quaternary ammonium salt or N-oxide derived from I, to boost the activity of the composition to overcome the resistance of the insect pests. The composition is useful against resistant acarids and nematodes, as well.

IT **33089-61-1D**, Amitraz, mixts. with azabicyclooctane derivs.
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(insecticidal composition for control of resistant insects)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)

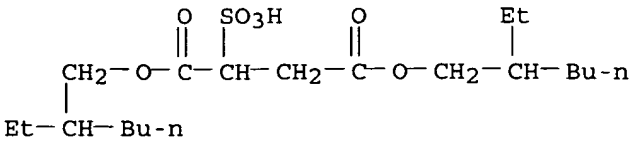


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 11 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:86632 HCAPLUS
DOCUMENT NUMBER: 126:128243
TITLE: Possibilities of azadirachtin and salts of dioctylsulfosuccinate for the control of Psylla pyri, Tetranychus urticae and Tarsonemus pallidus
AUTHOR(S): Bylemans, Dany; Van Goethem, Luk
CORPORATE SOURCE: Royal Res. Station Gorsem, Sint-Truiden, B-3800, Belg.
SOURCE: Mededelingen - Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen (Universiteit Gent) (**1996**), 61(3a), 871-876
CODEN: MFLBER
PUBLISHER: Universiteit Gent, Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Field trials were carried out on the pear sucker, Psylla pyri, and the strawberry mite, Tarsonemus pallidus. Glasshouse trials were executed on Tetranychus urticae. Azadirachtin and potassium dioctylsulfosuccinate were very effective for the control of P. pyri. Especially the action on older larval stages was superior to the known standard compound amitraz. A double application of a tank mix of amitraz and sodium dioctylsulfosuccinate controlled a population of T. pallidus at an acceptable degree, whereas the action of amitraz on its own was insufficient. The tests on T. urticae, which were executed on a strain that was less susceptible to mitochondrial electron transport inhibitors, indicated that azadirachtin and potassium dioctylsulfosuccinate have potent acaricidal activities. When these compds. were combined in a tank mix or with existing acaricides, a very good control of T. urticae was realized.

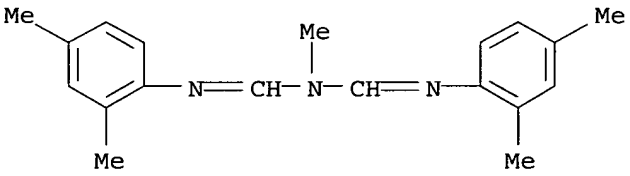
IT **577-11-7**, Sodium dioctylsulfosuccinate
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(Psylla pyri, Tetranychus urticae and Tarsonemus pallidus control by)
RN 577-11-7 HCAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



IT **186452-68-6**
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(Tarsonemus pallidus control by)
RN 186452-68-6 HCAPLUS
CN Butanedioic acid, sulfo-, 1,4-dioctyl ester, sodium salt, mixt. with N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methylmethanimidamide (9CI) (CA INDEX NAME)

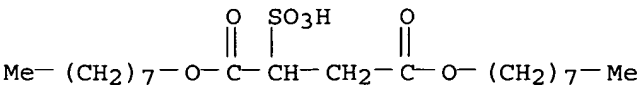
CM 1

CRN 33089-61-1
CMF C19 H23 N3



CM 2

CRN 1639-66-3
CMF C20 H38 O7 S . Na



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 12 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:433098 HCAPLUS
DOCUMENT NUMBER: 125:107722
TITLE: Field and greenhouse performance of Mustang 1.5 EW and Capture 2EC on immature and adult whitefly
AUTHOR(S): McKenzie, C. L.; Toscano, N. C.; Beehler, L.
CORPORATE SOURCE: FMC Corporation, Yuma, AZ, USA

SOURCE: Proceedings - Beltwide Cotton Conferences (**1996**), (Vol. 2), 810-816
CODEN: PCOCEN; ISSN: 1059-2644
PUBLISHER: National Cotton Council
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Greenhouse studies were conducted to determine the most vulnerable whitefly stage to various pyrethroid treatment regimes and to determine if differences in insecticide efficacy are due to speed of kill. The order of immature whitefly susceptibility overall was crawler to second instar > egg hatch to crawler > 3rd-4th instar to redeye nymph. All insecticide treatments tested appeared to take approx. the same length of time to take lethal action. Small plot field trials were conducted in 1994 to evaluate season long control of whitefly with competitive pyrethroid combinations and in 1995 to compare the efficacy of rotating nonpyrethroid and pyrethroid insecticide combinations with continuous pyrethroid insecticide treatment regimes. Large field plots also established in 1995 determined Mustang 1.5 EW whitefly efficacy improves ± 5% when a **surfactant** is added (CSO or Bivert) or the rate of Orthene is increased (2X) in insecticide tank mixts. applied by air.

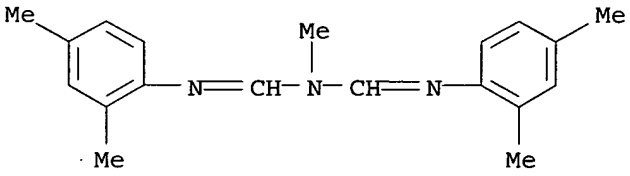
IT **70162-20-8**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(insecticides against immature and adult whitefly)

RN 70162-20-8 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl-, mixt. with 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide (9CI) (CA INDEX NAME)

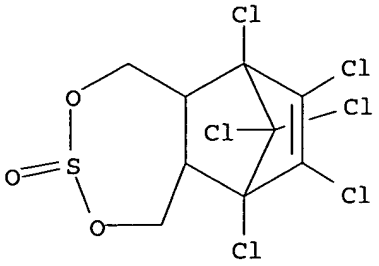
CM 1

CRN 33089-61-1
CMF C19 H23 N3



CM 2

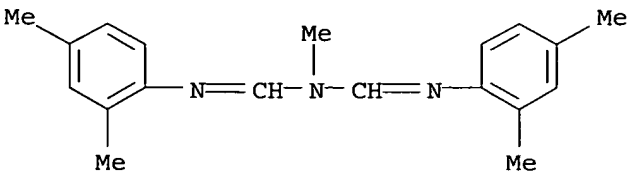
CRN 115-29-7
CMF C9 H6 Cl6 O3 S



L33 ANSWER 13 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:47962 HCAPLUS
DOCUMENT NUMBER: 120:47962
TITLE: The microimmersion bioassay: a novel method for the topical application of pesticides to spider mites
AUTHOR(S): Dennehy, Timothy J.; Farnham, Andrew W.; Denholm, Ian
CORPORATE SOURCE: Dep. Entomol., Cornell Univ., Geneva, NY, 14456, USA
SOURCE: Pesticide Science (**1993**), 39(1), 47-54
CODEN: PSSCBG; ISSN: 0031-613X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A novel and versatile method is described for measuring the contact activity of acaricides against spider mites. The microimmersion (MI) bioassay involves drawing batches of 25 mites into small pipet tips under vacuum, immersing them for 30 s in 35 μL of a test solution, and then confining the treated subjects on clean foliage in holding cells. Evaluations of amitraz, bifenthrin, chlorpyrifos, and dicofol against susceptible strains of Tetranychus urticae Koch showed the MI bioassay to be equally applicable to formulated and tech. acaricides (the latter dissolved in acetone + distilled water; 20 + 80 by volume), and to give LC50 values that corresponded well with those from a conventional residual bioassay. The most important difference between bioassay methods was the consistently greater slope of probit lines from MI tests. Results were not highly sensitive to varying the immersion period between 15 and 60 s, and low control mortality was observed with ethanol or acetone concns. of up to 500 mL/L, and **surfactant** concns. of up to 10 g/L. The potential of this method for assessing the relative toxicity of both fast- and slow-acting acaricides, screening small quantities of exptl. compds. for acaricidal activity, and improving the laboratory procedure for selection and characterization of acaricide resistance is discussed.

IT **33089-61-1**, Amitraz
RL: PROC (Process)
(against spider mites, microimmersion bioassay of)
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



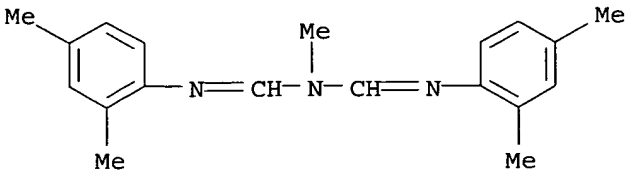
L33 ANSWER 14 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:159169 HCAPLUS
DOCUMENT NUMBER: 114:159169
TITLE: Agrochemical or biocidal suspensions
INVENTOR(S): Lambie, Alan James; Akred, Brian John; Nicholson, William John; Newton, Jill Elisabeth
PATENT ASSIGNEE(S): Albright and Wilson Ltd., UK
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 388239	A1	19900919	EP 1990-302891	19900316 <--
EP 388239	B1	19950111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
IL 93726	A1	19941007	IL 1990-93726	19900313 <--
ZA 9001960	A	19901228	ZA 1990-1960	19900314 <--
HU 56236	A2	19910828	HU 1990-1575	19900314 <--
HU 215709	B	19990201		
RO 110289	B1	19951229	RO 1990-144466	19900315 <--
SK 280019	B6	19990712	SK 1990-1255	19900315 <--
CZ 286754	B6	20000614	CZ 1990-1255	19900315 <--
CA 2012382	AA	19900917	CA 1990-2012382	19900316 <--
CA 2012382	C	19991207		
NO 9001236	A	19900918	NO 1990-1236	19900316 <--
NO 178212	B	19951106		
NO 178212	C	19960214		
AU 9051438	A1	19900920	AU 1990-51438	19900316 <--
AU 634524	B2	19930225		
GB 2229634	A1	19901003	GB 1990-5925	19900316 <--
GB 2229634	B2	19920826		
JP 02289502	A2	19901129	JP 1990-66710	19900316 <--
JP 2537558	B2	19960925		
PL 164674	B1	19940930	PL 1990-284340	19900316 <--
ES 2071012	T3	19950616	ES 1990-302891	19900316 <--
FI 103749	B1	19990930	FI 1990-1331	19900316 <--
CN 1045682	A	19901003	CN 1990-102296	19900317 <--
BR 9001260	A	19910326	BR 1990-1260	19900319 <--
DD 292830	A5	19910814	DD 1990-338857	19900319 <--
US 6200586	B1	20010313	US 1997-850648	19970502 <--

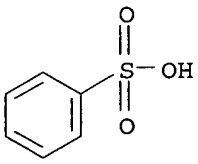
PRIORITY APPLN. INFO.:		
GB 1989-6234	A	19890317
US 1990-491298	B1	19900309
CS 1990-1255	A	19900315
US 1991-737589	B1	19910725
US 1993-45909	B1	19930412
US 1994-183226	B1	19940118
US 1994-345007	B1	19941123
US 1995-446042	B1	19950519
US 1996-693581	B1	19960801

AB Insol. pesticides are suspended in aqueous structured **surfactant** systems. In these systems, the **surfactants** form mesophases comprising structures larger than conventional spherical micelles, which interact to confer thixotropic properties. The systems also comprise a **surfactant**-desolubilizing electrolyte. A suspension comprised ethofumesate 40.0, NaNO2 1.2, cocomonoethanolamide 2.1, linear C12 alkyl benzenesulfonate 5.2, silicone defoamer 0.1, and water 51.4%.

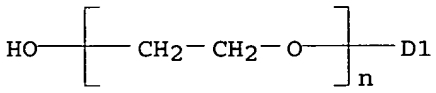
IT **33089-61-1**, Amitraz
RL: PROC (Process)
(pecticide suspension formulation of)
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



IT **98-11-3D**, Benzenesulfonic acid, alkyl derivs., sodium salts
9016-45-9, Nonyl phenyl ethoxylate
RL: BIOL (Biological study)
(pesticidal suspensions containing)
RN 98-11-3 HCAPLUS
CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



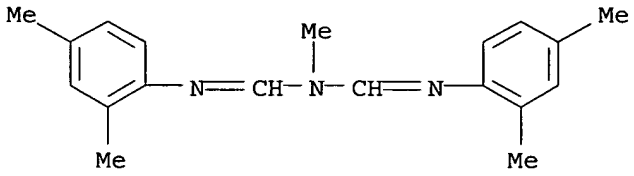
D1— $(CH_2)_8$ —Me

L33 ANSWER 15 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:116943 HCAPLUS
DOCUMENT NUMBER: 114:116943
TITLE: Alkyl carbonate potassium and sodium salts as stabilizers for solid forms of amitraz
INVENTOR(S): Sledzinski, Bohdan
PATENT ASSIGNEE(S): Instytut Przemyslu Organicznego, Pol.
SOURCE: Pol., 3 pp.

CODEN: POXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Polish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 148875	B1	19891230	PL 1987-264828	19870325 <--

PRIORITY APPLN. INFO.: PL 1987-264828 19870325
OTHER SOURCE(S): MARPAT 114:116943
AB The title carbonates are present at 0.05-5 weight %, along with other components such as **surfactants**, antioxidants, etc. They are especially useful for formulations containing amitraz (I) 0.1-10 weight %. Tablets were formed from I 1.7, K Et carbonate 1.4, sawdust 58.2, KClO3 19.4, and dextrin 19.3 weight parts.
IT **33089-61-1**, Amitraz
RL: BIOL (Biological study)
(solid, alkyl carbonate potassium and sodium salts as stabilizers for)
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 16 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:116929 HCAPLUS
DOCUMENT NUMBER: 114:116929
TITLE: Nonphospholipid liposomes for encapsulation of parasiticides
INVENTOR(S): Wallach, Donald F. H.
PATENT ASSIGNEE(S): Micro Vesicular Systems, Inc., USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 10
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9006747	A1	19900628	WO 1989-US5668	19891218 <--
W: AU, BB, BR, DK, FI, HU, JP, KR, MW, NO, SD, SE, SU				
RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, ES, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
US 5019392	A	19910528	US 1988-286731	19881220 <--
AU 9049446	A1	19900710	AU 1990-49446	19891218 <--
AU 633540	B2	19930204		
EP 449983	A1	19911009	EP 1990-901986	19891218 <--
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
BR 8907837	A	19911022	BR 1989-7837	19891218 <--

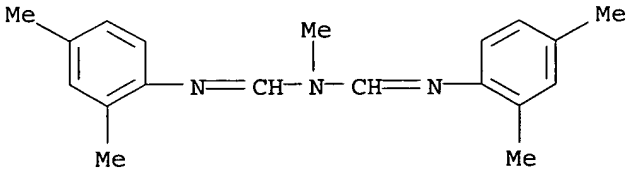
JP 04503353	T2	19920618	JP 1990-502095		19891218 <--
CA 2006251	AA	19900620	CA 1989-2006251		19891220 <--
CA 2062726	AA	19901227	CA 1990-2062726		19900613 <--
WO 9100084	A1	19910110	WO 1990-US3339		19900613 <--
W: AU, BR, CA, FI, HU, JP, NO, SU					
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE					
AU 9059471	A1	19910117	AU 1990-59471		19900613 <--
PRIORITY APPLN. INFO.:			US 1988-286731	A	19881220
			US 1987-25525	B2	19870313
			US 1987-78658	A2	19870728
			US 1987-124824	A2	19871124
			US 1988-157571	A2	19880303
			US 1989-371738	A	19890626
			WO 1989-US5668	A	19891218
			WO 1990-US3339	A	19900613

AB Parasiticides (insecticides, acaricides, anthelmintics) are encapsulated into nonphospholipid lipid vesicles. The lipids include ethoxylated fatty esters or fatty acid ethers, long-chain acylamides or acyl amino acid amides, ethoxylated sorbitan oleates, etc. The vesicles may also include a steroid and a pos. or neg. charge-producing agent. The vesicles are either dispersed into an aqueous carrier or are dried and dispersed in an oily medium. A vesicle-forming solution comprised Brij-52 33, cholesterol 11 and palmitate 1.5 parts. The solution was mixed with cyhalothrin and water, at a 1:1:1 ratio, to give vesicles, which were suspended in water. In immersion tests, the mean lethal concentration against Boophilus microplus adults was 360 ppm, compared to 390 ppm for conventional cyhalothrin emulsion concentrate

IT **33089-61-1**, Amitraz
RL: PROC (Process)
(encapsulation of, in liposomes)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



IT **31566-31-1**, Glycerol monostearate
RL: BIOL (Biological study)
(liposomes containing, for encapsulation of parasiticides)

RN 31566-31-1 HCAPLUS

CN Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)

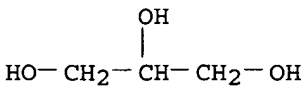
CM 1

CRN 57-11-4
CMF C18 H36 O2

$HO_2C-(CH_2)_{16}-Me$

CM 2

CRN 56-81-5
CMF C3 H8 O3



L33 ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:548942 HCAPLUS
DOCUMENT NUMBER: 111:148942
TITLE: Latex-based agricultural compositions
INVENTOR(S): Smith, Geoffrey William; Mulqueen, Patrick Joseph; Paterson, Eric Simmers; Cuffe, John
PATENT ASSIGNEE(S): Dow Chemical Co., UK
SOURCE: PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 8903176	A1	19890420	WO 1988-GB863		19881014	<--
W: JP, US						
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE						
EP 381691	A1	19900816	EP 1988-909101		19881014	<--
EP 381691	B1	19921007				
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE						
JP 03501846	T2	19910425	JP 1988-508372		19881014	<--
JP 2813611	B2	19981022				
AT 81253	E	19921015	AT 1988-909101		19881014	<--
PRIORITY APPLN. INFO.:			GB 1987-24132	A	19871014	
			GB 1987-24133	A	19871014	
			GB 1988-17930	A	19880727	
			EP 1988-909101	A	19881014	
			WO 1988-GB863	W	19881014	

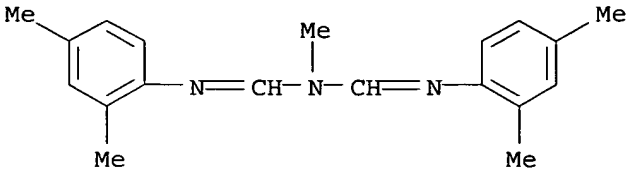
AB An agricultural composition is given, comprising at least a first active pesticide component, and at least one other active component (pesticide or fertilizer). At least one of the other active component is physico-chemical, chemical or biol. incompatible with the first pesticidal component, the composition being in the form of an aqueous dispersion having a continuous aqueous phase, and at least a first dispersed phase. The composition comprises at least one emulsifying **surfactant** in an amount sufficient to render the composition water-dispersible. The first dispersed phase contains particles derived from a latex. The first pesticidal component is present in the composition wholly within the first dispersed phase, and the other at least one active ingredient is all present either in the continuous aqueous phase, or in a second dispersed phase, whereby the incompatibility is reduced or eliminated. A 3:1 mixture or fluroxypyr 1-methylheptyl ester and bifenox was mixed with 12 g Pluriol PE6100 and 4 g Pluriol PE6200 and stirred into 40 g styrene-Bu acrylate latex, followed by addition to a com. bifenox aqueous suspension concentrate (55.4 g) and dilution with water to 100 mL.

Applied to barley, at 200 L/ha, the composition showed only slight phytotoxicity. The pesticides were fungicides, insecticides or herbicides.

IT **33089-61-1**, Amitraz
RL: BIOL (Biological study)
(agrochem. formulation containing, latex-based)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 18 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:492314 HCAPLUS

DOCUMENT NUMBER: 111:92314

TITLE: Microbicidal wettable compositions containing aggregation inhibitors

INVENTOR(S): Ubukata, Koji; Okamoto, Susumu; Takahashi, Gunji; Morimoto, Yoshiaki

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63284105	A2	19881121	JP 1987-118780	19870518 <--
JP 2516015	B2	19960710		

PRIORITY APPLN. INFO.: JP 1987-118780 19870518

AB A wettable composition is prepared containing zineb, maneb, manzeb, polycarbamate , and/or propineb, in addition to 0.2-0.4% by weight polyvinylpyrrolidone (caking inhibitor) and 0.5-3.0% by weight polyoxyalkylene alkylamine **surfactants** (mol. weight ≥5000). A wettable composition was prepared consisting of zineb 75, POE sorbitan fatty acid ester 3, a ligninsulfonic acid salt 3, polyvinylpyrrolidone 0.3, a polyoxyalkylene alkylamine **surfactant** (mol. weight 18,000) 2, and clay 16.7 parts by weight

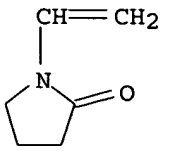
IT **9003-39-8**, Polyvinylpyrrolidone
RL: BIOL (Biological study)
(microbicidal wettable composition containing, as caking inhibitor)

RN 9003-39-8 HCAPLUS

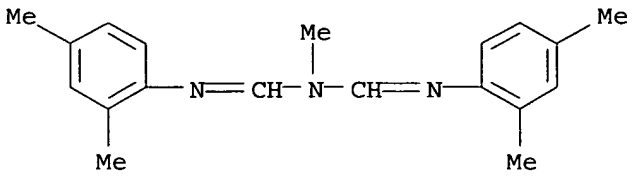
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0
CMF C6 H9 N O



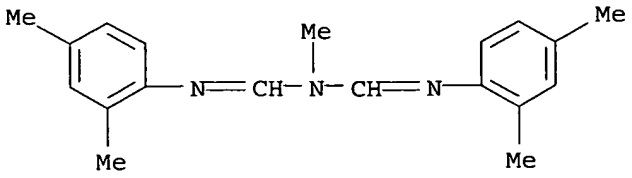
IT **33089-61-1**
RL: BIOL (Biological study)
(pesticidal wettable formulations caking inhibitors and)
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 19 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:133810 HCAPLUS
DOCUMENT NUMBER: 106:133810
TITLE: Stabilization of Amitraz preparations by alkaline earth metal oxides
INVENTOR(S): Tamogami, Kazuo
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61238702	A2	19861024	JP 1985-79853	19850415 <--
JP 04082121	B4	19921225		

PRIORITY APPLN. INFO.: JP 1985-79853 19850415
AB Alkaline earth metal oxides are effective in stabilizing Amitraz prepns. Thus, 50 g of a composition containing Amitraz 20, **surfactant** 8, and xylene 72 parts was mixed with water 0.25 and BaO 3 g. The mixture was kept in a jar at 45° for 15 days. The decomposition rate of Amitraz was 0.01% vs. 36.8% for the control without BaO.
IT **33089-61-1**, Amitraz
RL: PROC (Process)
(stabilization of, by alkaline earth metal oxide)
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



L33 ANSWER 20 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:57851 HCAPLUS
DOCUMENT NUMBER: 102:57851
TITLE: Pesticidal composition
INVENTOR(S): Baker, Rodney Cyril; Van Rensburg, Philippus Jansen
PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK
SOURCE: Brit. UK Pat. Appl., 4 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2139893	A1	19841121	GB 1984-11267	19840502 <--
ZA 8402938	A	19841224	ZA 1984-2938	19840418 <--
AU 8427142	A1	19841108	AU 1984-27142	19840419 <--
JP 59206301	A2	19841122	JP 1984-89190	19840502 <--
BR 8402055	A	19841211	BR 1984-2055	19840502 <--
EP 127773	A1	19841212	EP 1984-104939	19840502 <--
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				

PRIORITY APPLN. INFO.: ZA 1983-3147 A 19830503
OTHER SOURCE(S): MARPAT 102:57851

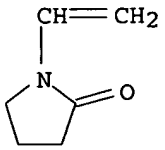
AB An insecticidal composition which may be further diluted for use with a hand pump spray or pressurized spray, or may be used as a dip wash for animals was prepared comprising an insecticide, emulsifier, and a self-disintegrating agent. Thus, a mixt of permethrin [52645-53-1] 10.7, phenylsulfonate CA 0.35, Tergitol XD 0.65, Luviskol K30 [**9003-39-8**] 8, H3BO3 4.9, tartaric acid 31.9, NaHCO3 43, and Silcolapse 0.5% was formulated as a tablet which when contacted with water effervesced and disintegrated within 2 min.

IT **9003-39-8 33089-61-1**
RL: BIOL (Biological study)
(insecticidal tablet formulation containing)

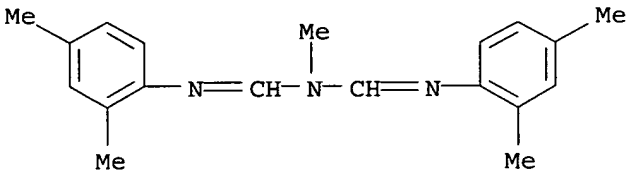
RN 9003-39-8 HCAPLUS
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0
CMF C6 H9 N O



RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



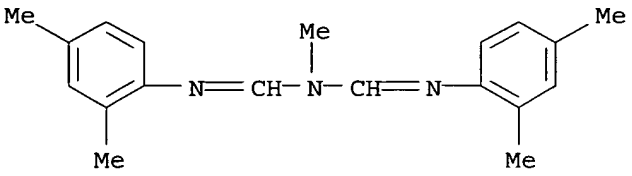
L33 ANSWER 21 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:410866 HCAPLUS
DOCUMENT NUMBER: 99:10866
TITLE: Aqueous back-moistening formulation
INVENTOR(S): Kieran, Peter John; Townsend, Robert Bruce; Hackney, Ronald James; Gayst, Stephen; Maguire, Michael John
PATENT ASSIGNEE(S): Wellcome Australia Ltd., Australia
SOURCE: Ger. Offen., 27 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
DE 3238525	A1	19830428	DE 1982-3238525		19821018	<--
AU 8289644	A1	19830428	AU 1982-89644		19811019	<--
AU 563723	B2	19870723				
US 4607050	A	19860819	US 1982-430884		19820930	<--
DK 8204614	A	19830420	DK 1982-4614		19821018	<--
DK 165354	B	19921116				
DK 165354	C	19930405				
FR 2515000	A1	19830429	FR 1982-17356		19821018	<--
FR 2515000	B1	19900223				
JP 58079901	A2	19830513	JP 1982-182664		19821018	<--
NL 8204018	A	19830516	NL 1982-4018		19821018	<--
NL 192289	B	19970106				
NL 192289	C	19970507				
GB 2109236	A1	19830602	GB 1982-29753		19821018	<--
GB 2109236	B2	19850515				
ZA 8207614	A	19830831	ZA 1982-7614		19821018	<--
BR 8206062	A	19830913	BR 1982-6062		19821018	<--
BE 904134	A7	19860515	BE 1986-216203		19860129	<--
PRIORITY APPLN. INFO.:			AU 1981-1217	A	19811019	
			ZA 1982-7614		19821018	

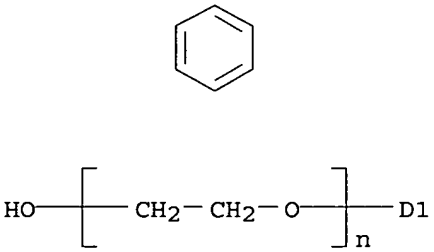
AB An aqueous back-moistening formulation for topical application to animals consists of an aqueous carrier and a water-insol. insecticide or parasiticide

suspended or disposed in the aqueous carrier and a dye. Application of this formulation decreases the skin reaction which occurs when nonaq. solvents are used. Thus, an aqueous suspension was prepared containing micronized decamethrin (Deltamethrin) [52918-63-5] 10.1, polyethylene oxide nonylphenyl ether [**9016-45-9**] 1.5, SiO2 5.0, Xantham rubber 4.0, propylene glycol 60.0, HCHO 1.0, silicone oil 0.1 g and H2O to 1 L. The particle size of the active agent was 2-5 μ. The activity of this aqueous formulation was demonstrated in sheep.

IT **33089-61-1**
RL: BIOL (Biological study)
(aqueous back-moistening topical formulation containing, for animals)
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



IT **9016-45-9**
RL: BIOL (Biological study)
(aqueous back-moistening topical formulations containing insecticides or parasiticides and, for animals)
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



D1— $(CH_2)_8$ —Me

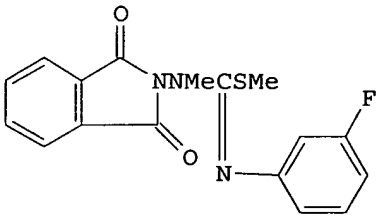
L33 ANSWER 22 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:64200 HCAPLUS
DOCUMENT NUMBER: 96:64200
TITLE: Isothioureido isoindolediones and their use as plant growth regulators
INVENTOR(S): Kirkpatrick, Joel L.; Patel, Natu R.; Rutter, Jerry L.
PATENT ASSIGNEE(S): Gulf Oil Corp., USA
SOURCE: U.S., 16 pp. Cont.-in-part of U.S. Ser. No. 35,875, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4292071	A	19810929	US 1980-133888	19800410 <--
AU 8057560	A1	19801106	AU 1980-57560	19800417 <--
CA 1146547	A1	19830517	CA 1980-350314	19800421 <--
FI 8001378	A	19801104	FI 1980-1378	19800429 <--
BE 883066	A1	19801030	BE 1980-200430	19800430 <--
FR 2455581	A1	19801128	FR 1980-9875	19800430 <--
FR 2455581	B1	19830805		
GB 2049678	A	19801231	GB 1980-14259	19800430 <--
GB 2049678	B2	19830907		
JP 56005460	A2	19810120	JP 1980-56412	19800430 <--
AT 8002318	A	19810915	AT 1980-2318	19800430 <--
AT 366665	B	19820426		
HU 26085	O	19830928	HU 1980-1081	19800430 <--
DK 8001943	A	19801104	DK 1980-1943	19800501 <--
NL 8002545	A	19801105	NL 1980-2545	19800501 <--
BR 8002705	A	19801216	BR 1980-2705	19800502 <--
ES 491130	A1	19810416	ES 1980-491130	19800502 <--
ZA 8002665	A	19810527	ZA 1980-2665	19800502 <--
DD 151867	C	19811111	DD 1980-220842	19800502 <--
DD 159332	C	19830302	DD 1980-230461	19800502 <--
US 4362879	A	19821207	US 1981-243297	19810313 <--

PRIORITY APPLN. INFO.: US 1979-35875 A2 19790503
US 1980-133888 A 19800410

OTHER SOURCE(S): CASREACT 96:64200
GI



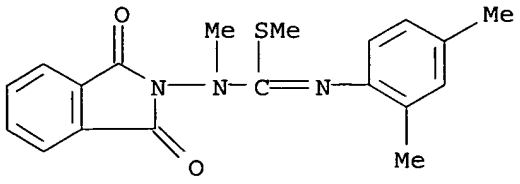
I

AB Substituted isothioureido isoindolediones are plant growth regulators effective as pre- and postemergent herbicides, as defoliants, fruit set enhancers, and having other growth promoting activities. Thus, 2-[1,2-dimethyl-3-(3-fluorophenyl)isothioureido]-1H-isoindole-1,3-(2H)dione (I) [77671-46-6] defoliated cotton and controlled pigweed. The substituted isothioureido isoindolediones are applied in compns. containing 0.1 to 95% active ingredient and 0.1 to 75% weight% inert carrier and **surfactant.** The preparation of these compds. is given.

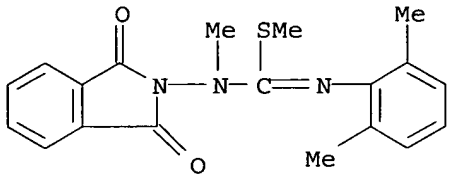
IT **77671-50-2P 77671-54-6P 77671-57-9P**
77671-61-5P 77671-84-2P 77671-85-3P
77672-47-0P 77672-49-2P 77672-60-7P
77672-89-0P 77673-17-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and plant regulator activity of)

RN 77671-50-2 HCAPLUS

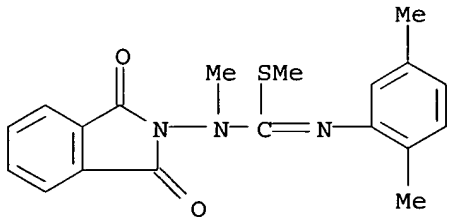
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,4-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



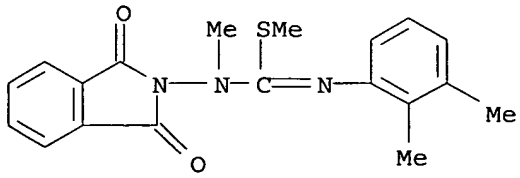
RN 77671-54-6 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,6-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



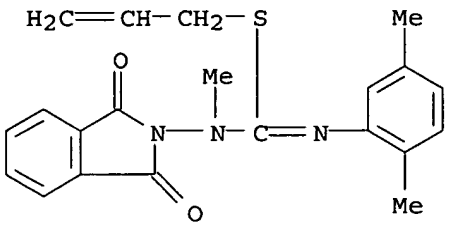
RN 77671-57-9 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,5-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 77671-61-5 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,3-dimethylphenyl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)

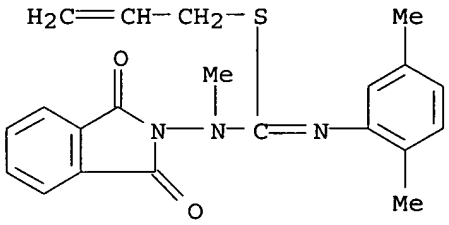


RN 77671-84-2 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,5-dimethylphenyl)-N-methyl-, 2-propenyl ester, monohydrobromide (9CI) (CA INDEX NAME)

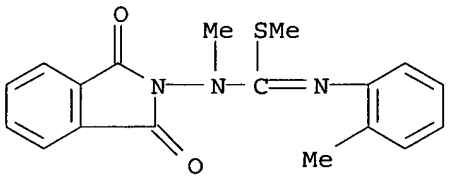


● HBr

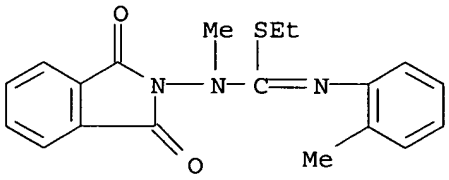
RN 77671-85-3 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N'-(2,5-dimethylphenyl)-N-methyl-, 2-propenyl ester (9CI) (CA INDEX NAME)



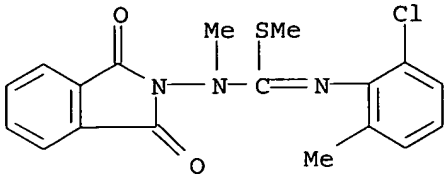
RN 77672-47-0 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-N'-(2-methylphenyl)-, methyl ester (9CI) (CA INDEX NAME)



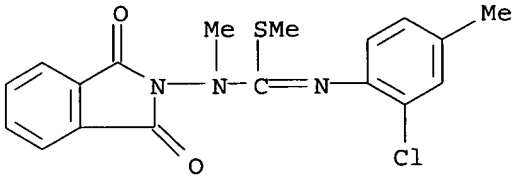
RN 77672-49-2 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-N'-(2-methylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)



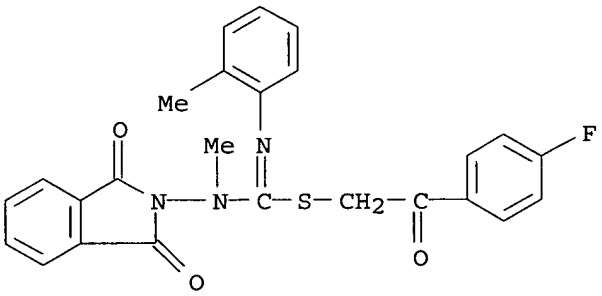
RN 77672-60-7 HCAPLUS
CN Carbamimidothioic acid, N'-(2-chloro-6-methylphenyl)-N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 77672-89-0 HCAPLUS
CN Carbamimidothioic acid, N'-(2-chloro-4-methylphenyl)-N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 77673-17-7 HCAPLUS
CN Carbamimidothioic acid, N-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-methyl-N'-(2-methylphenyl)-, 2-(4-fluorophenyl)-2-oxoethyl ester (9CI) (CA INDEX NAME)



L33 ANSWER 23 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1981:492371 HCAPLUS
DOCUMENT NUMBER: 95:92371
TITLE: Pesticidal compositions containing amitraz
INVENTOR(S): Mulqueen, Patrick Joseph
PATENT ASSIGNEE(S): Boots Co. Ltd., UK
SOURCE: Brit. UK Pat. Appl., 3 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2055045	A	19810225	GB 1980-25849	19800808 <--

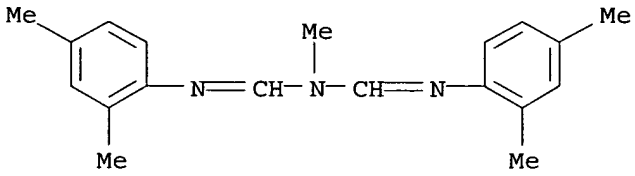
PRIORITY APPLN. INFO.: GB 1979-28030 A 19790811
AB Insecticidal and acaricidal compns. containing 10-80% amitraz [

33089-61-1] together with dispersing and (or) wetting agents, and grinding agents and (or) solid **diluents** are stabilized by addition of 1.5-5% xanthate MS2COR (M = Na, K, Zn; R = C2-6 alkyl). Thus, a dispersible powder composition was prepared by grinding amitraz 50, KS2COEt [140-89-6] 3, Aerosol OT-B 1, Dyapol PT 10, diatomaceous earth 19%, and CaCO3 to balance in an air jet mill to give particle size 5-15 μm. During 4 mo storage at 50°, 6.6% of the amitraz decomposed compared with 27.4% decomposition in a similar composition omitting the xanthate.

IT **33089-61-1**
RL: BIOL (Biological study)
(pesticidal compns.-containing, xanthate stabilizer for)

RN 33089-61-1 HCAPLUS

CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



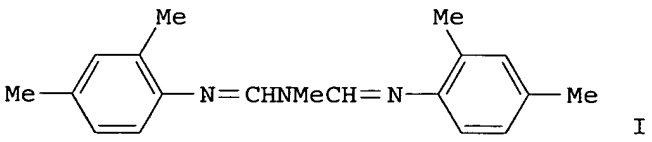
L33 ANSWER 24 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:78454 HCAPLUS
DOCUMENT NUMBER: 94:78454
TITLE: Pesticidal compositions
INVENTOR(S): Palmer, Bryan Harper
PATENT ASSIGNEE(S): Boots Co. Ltd., UK
SOURCE: S. African, 14 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 7903643	A	19800730	ZA 1979-3643	19790718 <--
AU 7949367	A1	19800221	AU 1979-49367	19790730 <--
AU 524292	B2	19820909		

PRIORITY APPLN. INFO.: GB 1978-33947 A 19780819

GI



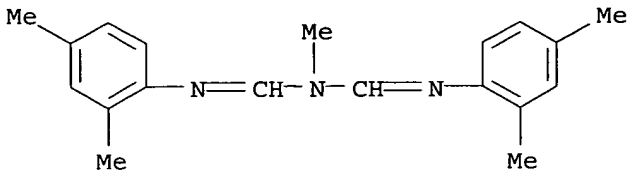
I

AB Compns. containing amitraz (I) [**33089-61-1**] and the organophosphorus insecticides diazinon [333-41-5] or dioxathion [78-34-2] are synergistic pesticides. Thus, in laboratory tests against the cattle tick Boophilus microplus (Biarra strain), a composition containing I-diazinon mixture [**76364-43-7**] (1:10 in aqueous Me2CO +

surfactant) was synergistically toxic (LD50 = 35.2 ppm). LD50 values for diazinon and I alone were >250 and 46.1 ppm, resp.

IT **33089-61-1 76364-43-7 76364-44-8**
RL: BIOL (Biological study)
(pesticidal compns. containing)

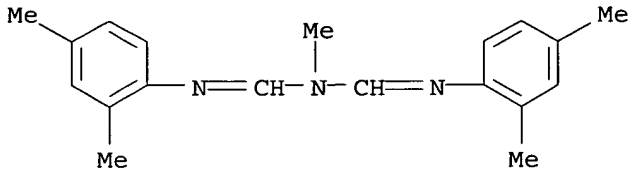
RN 33089-61-1 HCAPLUS
CN Methanimidamide, N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 76364-43-7 HCAPLUS
CN Phosphorothioic acid, O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester, mixt. with N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methylmethanimidamide (9CI) (CA INDEX NAME)

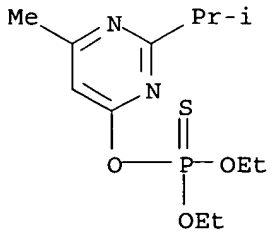
CM 1

CRN 33089-61-1
CMF C19 H23 N3



CM 2

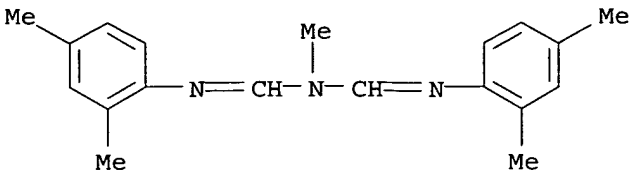
CRN 333-41-5
CMF C12 H21 N2 O3 P S



RN 76364-44-8 HCAPLUS
CN Phosphorodithioic acid, S,S'-1,4-dioxane-2,3-diyl O,O,O',O'-tetraethyl ester, mixt. with N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)imino]methyl]-N-methylmethanimidamide (9CI) (CA INDEX NAME)

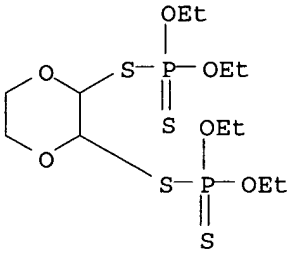
CM 1

CRN 33089-61-1
CMF C19 H23 N3

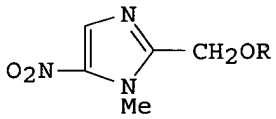


CM 2

CRN 78-34-2
CMF C12 H26 O6 P2 S4



L33 ANSWER 25 OF 25 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:499744 HCAPLUS
DOCUMENT NUMBER: 89:99744
TITLE: Chemotherapeutically active nitro compounds. 4.5-Nitroimidazoles. Part III
AUTHOR(S): Winkelmann, E.; Raether, W.
CORPORATE SOURCE: Hoechst A.-G., Frankfurt/Main, Fed. Rep. Ger.
SOURCE: Arzneimittel-Forschung (**1978**), 28(5), 739-49
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

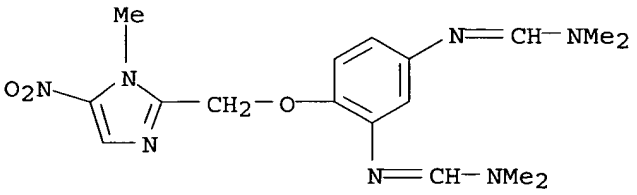


I

AB Nitroimidazolemethanol derivs. I (R = substituted Ph, Bz, SO2Ph, pyridyl, N heterocyclic) (105 compds.) were prepared by substitution on chloromethylimidazoles or imidazolemethanols. Some I (R = aromatic) (9 compds.) were better than tinidazole and 29 compds. better than metronidazole (II) against all Trichomonas fetus in mice, and 9 compds.

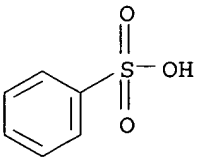
were superior to II against Entambeba histolytica in hamsters. I (R = 4-Me2NCH2CONHC6H4) [67344-05-2] showed high activity against Trypanosoma brucei in mice and some other I were trypanocidal at high doses. Aromatic carbonic esters were protozoacidal and some compds. with pyridine substituents were trichomonacidal. Structure- activity relations are discussed.

IT **67343-86-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and protozoacidal activity of)
RN 67343-86-6 HCAPLUS
CN Methanimidamide, N',N'''-[4-[(1-methyl-5-nitro-1H-imidazol-2-yl)methoxy]-1,3-phenylene]bis[N,N-dimethyl-, trihydrochloride (9CI) (CA INDEX NAME)

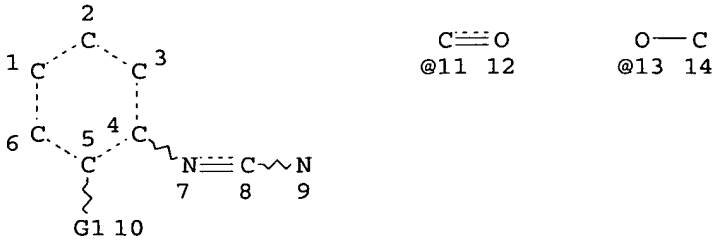


● 3 HCl

IT **98-11-3**, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloromethylimidazole derivs.)
RN 98-11-3 HCAPLUS
CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



=> => d stat que l38
L1 STR



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NSPEC IS RC AT 9

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 1
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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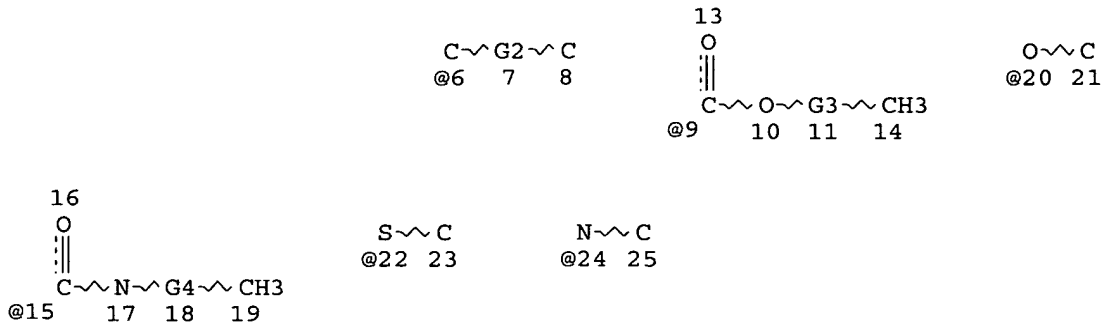
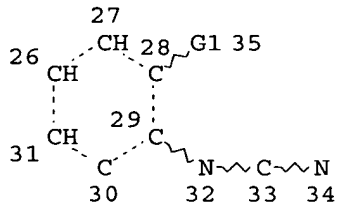
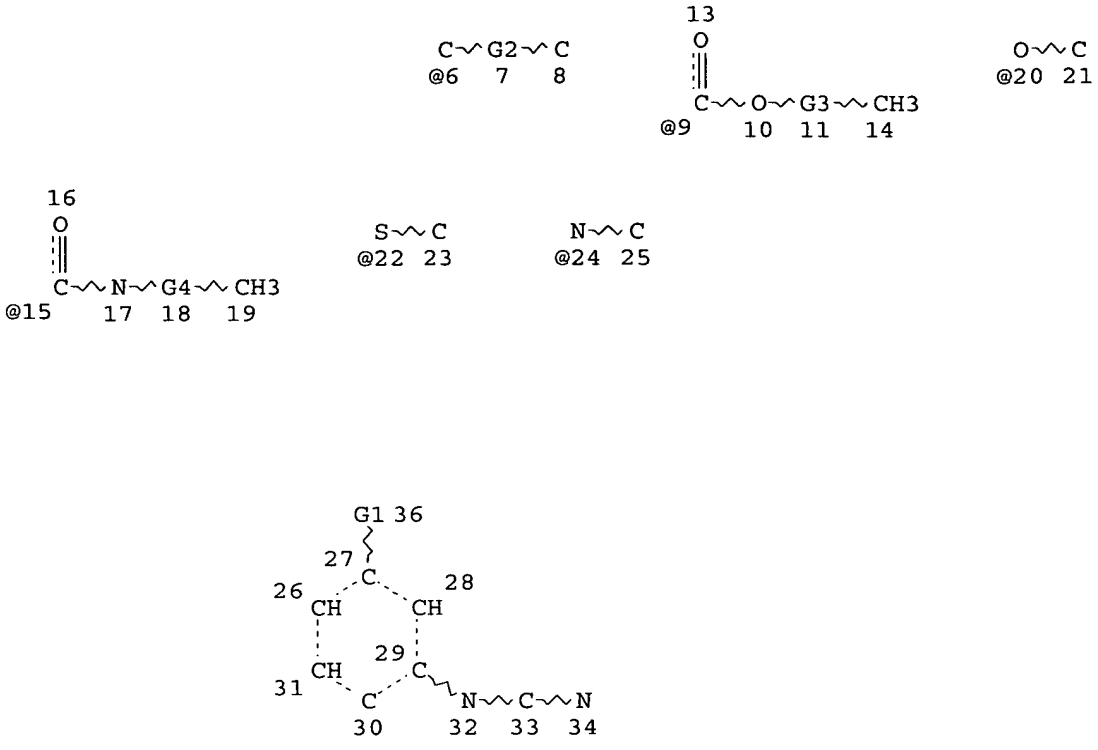




VAR G1=20/22/24/6/9/15/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/SI
REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L13 STR



VAR G1=20/22/24/6/9/15/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/SI
REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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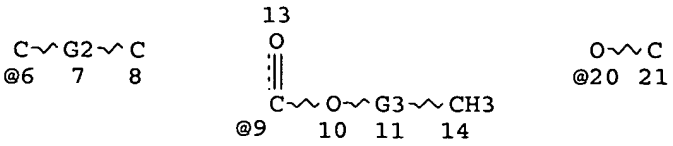

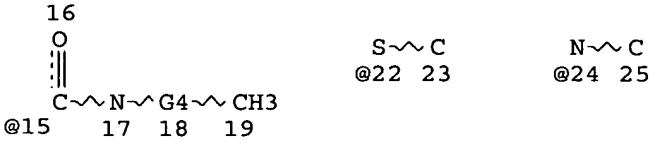

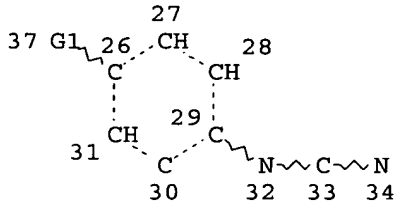

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REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
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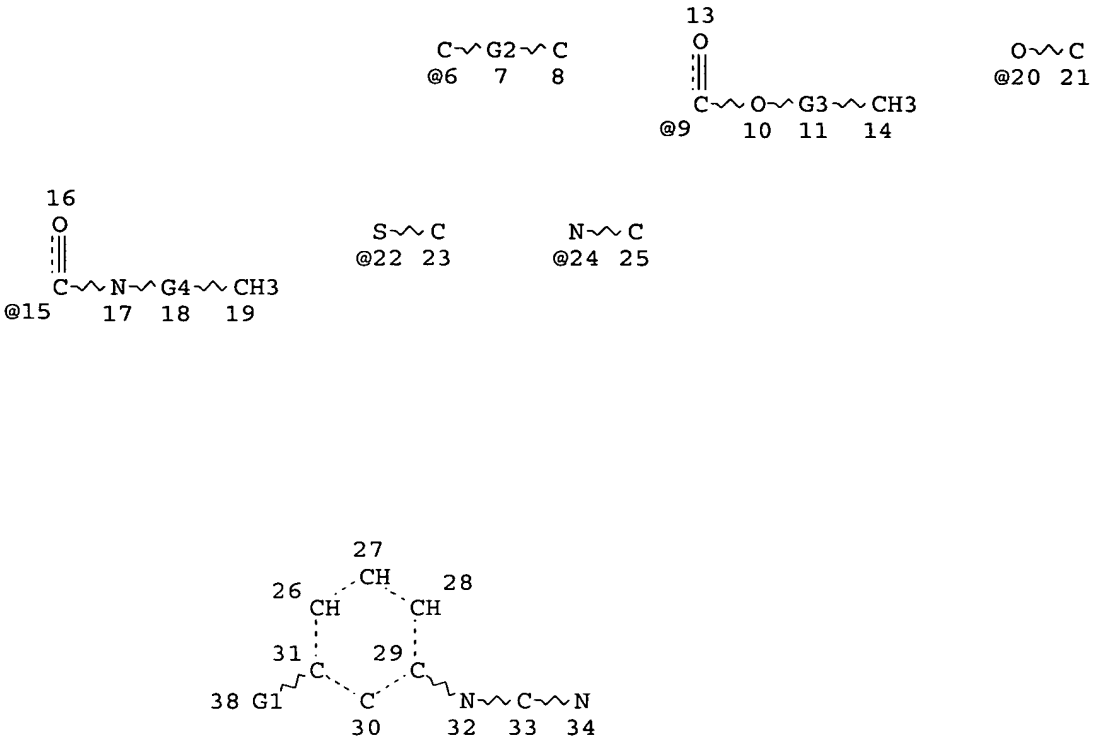
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
L15 STR



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REP G2=(3-19) C
REP G3=(1-8) C
REP G4=(3-9) C
NODE ATTRIBUTES:
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE
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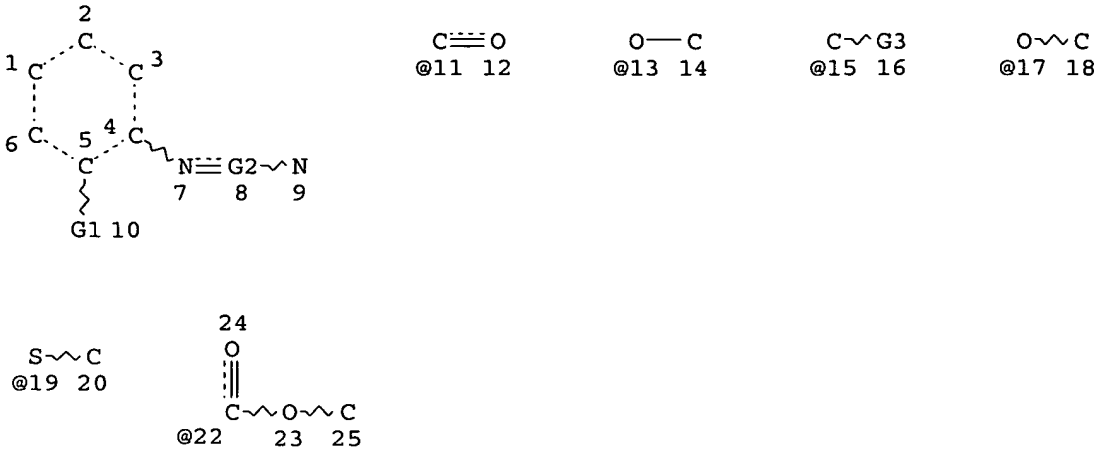
L17 8445 SEA FILE=REGISTRY SUB=L11 SSS FUL L13
L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14
L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15
L20 60852 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L17 OR L18 OR L19
L21 STR



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NODE ATTRIBUTES:
NSPEC IS RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 1
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE
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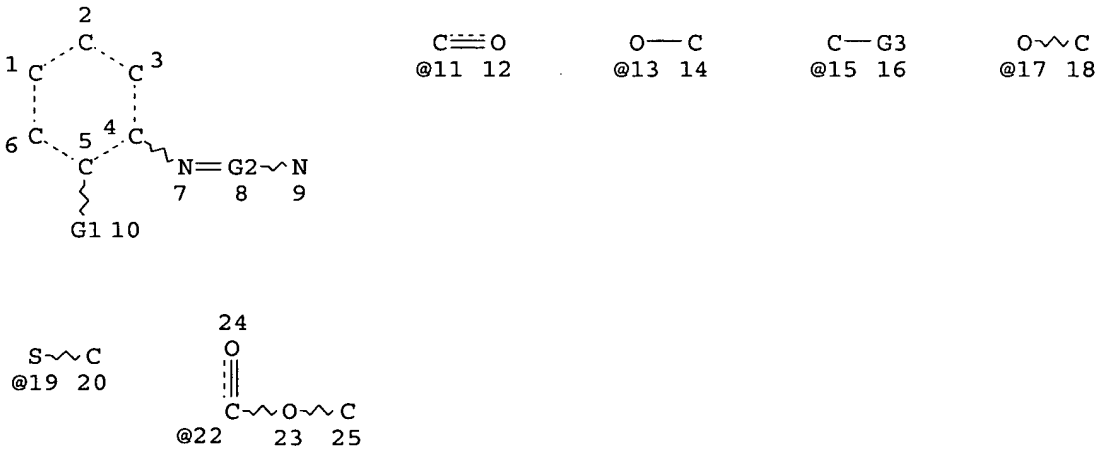
L23 STR



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VAR G2=CH/15
VAR G3=OH/SH/SO3H/CN/17/19/AK/CY/22
NODE ATTRIBUTES:
NSPEC IS RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

```
GRAPH ATTRIBUTES:
RSPEC   1
NUMBER OF NODES IS  24

STEREO ATTRIBUTES: NONE
L24         1581 SEA FILE=REGISTRY SUB=L20 SSS FUL L23
L25         1344 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24
L26         1156 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25 AND PD=<MAY 3, 2002
L27       104130 SEA FILE=HCAPLUS ABB=ON  PLU=ON  ("FUNGICIDES (L) AGROCHEM."/CV
                  OR "FUNGICIDES AND FUNGISTATS (L) AGROCHEM."/CV OR "AGRICULTUR
                 AL FUNGICIDES"/CV OR "AGROCHEM. FUNGICIDES"/CV OR "AGROCHEMICAL
                  FUNGICIDES"/CV) OR ?FUNGICID?
L28           23 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L25(L)L27
L29           17 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L26 AND L28
L30         1043 SEA FILE=REGISTRY ABB=ON  PLU=ON  SURFACT? OR DILUENT?
L31       342901 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L30 OR SURFACT? OR DILUENT?
L32           25 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L31 AND L26
L33           25 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L32 NOT L29
L34        56366 SEA FILE=REGISTRY ABB=ON  PLU=ON  L22 NOT L24
L35         9951 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L34
L36         8551 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L35 AND PD=<MAY 3, 2002) NOT
                 (L29 OR L33)
L37         2241 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L36 AND L27
L38           31 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L37 AND L31


=>

=> d ibib abs hitstr l38 1-31

L38  ANSWER 1 OF 31  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2002:198076  HCAPLUS
DOCUMENT NUMBER:          136:243287
TITLE:                    Bactericidal composition
INVENTOR(S):              Wang, Xianquan
PATENT ASSIGNEE(S):       Peop. Rep. China
SOURCE:                   Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
                          CODEN: CNXXEV
DOCUMENT TYPE:            Patent
LANGUAGE:                 Chinese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     --------------       ----   --------    --------------------    --------
     CN 1311997            A     20010912    CN 2000-102842          20000307 <--
PRIORITY APPLN. INFO.:                       CN 2000-102842          20000307
AB   The title composition is composed of at least one of carbendazim, albendazole,
     benomyl, thiabendazole, thiophanate-Me, thiram and ziram, and at least one
     of 3-(4-X-substituted phenyl)-3-(3,4-dimethoxyphenyl)-acryloylmorpholine
     at ratio of 1:50-50:1.  Filler, adjuvant and surfactant can be
     added to the composition  The bactericide is highly effective.
IT   23564-05-8, Thiophanate-methyl
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (synergistic bactericidal/fungicidal composition containing
        acryloylmorpholine derivs.)
RN   23564-05-8  HCAPLUS
CN   Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester
     (9CI)  (CA INDEX NAME)
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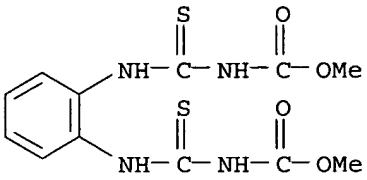


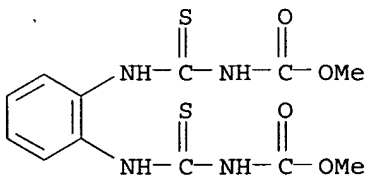
L38 ANSWER 2 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:66844 HCAPLUS
DOCUMENT NUMBER: 136:97849
TITLE: Light, extruded agricultural compositions containing a ceramic carrier for water surface application in paddy fields
INVENTOR(S): Takayanagi, Norikazu; Kimpara, Masaomi; Suzuki, Munehiro
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6340656	B1	20020122	US 2000-501554		20000209 <--
PRIORITY APPLN. INFO.:			US 1999-119650P	P	19990211

AB The light, extruded compns. comprise at least one agricultural compound a light, extrudable, ceramic carrier, and at least one surface active agent. The composition may further comprise a mineral carrier and a binder. The composition is used for applying agricultural compds. to the water of paddy rice fields by localized application(s). Light, extruded pesticidal compns. containing a ceramic carrier for water surface application in paddy fields.

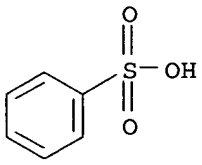
IT **23564-05-8**, Thiophanate-methyl
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(**fungicide** in light, extruded agricultural compns. containing ceramic carrier for water surface application in paddy fields)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



IT **98-11-3D**, Benzenesulfonic acid, alkyl derivs.
RL: MOA (Modifier or additive use); USES (Uses)
(**surfactant** in light, extruded agricultural compns. containing ceramic carrier for water surface application in paddy fields)

RN 98-11-3 HCAPLUS
CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



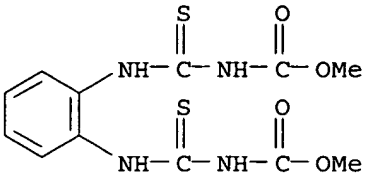
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:538589 HCAPLUS
DOCUMENT NUMBER: 135:206855
TITLE: Analysis of post-harvest **fungicides** by micellar electrokinetic chromatography
AUTHOR(S): Rodriguez, R.; Pico, Y.; Font, G.; Manes, J.
CORPORATE SOURCE: Facultat de Farmacia, Laboratorio de Bromatologia i Toxicologia, Universitat de Valencia, Valencia, 46100, Spain
SOURCE: Journal of Chromatography, A (**2001**), 924(1-2), 387-396
CODEN: JCRAEY; ISSN: 0021-9673
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A method based on solid-phase extraction (SPE) and micellar electrokinetic chromatog. (MEKC) was developed for the simultaneous determination of carbendazim, imazalil, methylthiophanate, O-phenylphenol, prochloraz, procymidone, thiabendazole and triadimefon residues in grape, lettuce, orange and tomato. Selectivity and resolution were studied changing the pH and the concentration of the buffer, the type and concentration of **surfactant** and the methanol content in the mobile phase. A buffer consisting of 4 mM borate with 75 mM sodium cholate (pH 9.2) gave the best results. The recoveries of the **fungicides** in spiked fruit and vegetable samples ranged from 30 to 105%, and the limits of detection were between 0.1 and 1 mg kg-1. The reproducibility and repeatability of the combination of SPE pretreatment and MEKC were good for all the compds., except for imazalil and O-phenylphenol in oranges, due to some matrix compds. interfering with the separation The method was applied to post harvest treated samples, and the **fungicides** were sometimes detected at concentration levels lower than maximum residue limits (MRLs).

IT **23564-05-8**, Methylthiophanate
RL: ANT (Analyte); BUU (Biological use, unclassified); POL (Pollutant); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(determination of post-harvest **fungicides** by micellar electrokinetic chromatog.)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



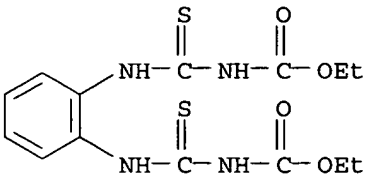
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 4 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:42039 HCAPLUS
DOCUMENT NUMBER: 134:67495
TITLE: Preparation of floating-type agrochemicals for rice field
INVENTOR(S): Xiao, Guoguang; Wang, Rong
PATENT ASSIGNEE(S): Changsha Inst. of Mining & Metallurgy, Ministry of Metallurgical Industry, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1252218	A	20000510	CN 1998-112697	19981026 <--
PRIORITY APPLN. INFO.:			CN 1998-112697	19981026

AB The floating-type agrochems. comprises active component 0.1-50, synergist 0.1-20, and floating carrier 99.8-30%. The active component is selected from various agrochems., such as pesticides: fenitrothion, urbacid, carbaryl-BHC, parathion, dimethoate, phosmet, shachongshuang, carbamates, lambda-cyhalothrin, deltamethrin; herbicides: acetochlor, propisochlor, butachlor, quinclorac, bispyribac-sodium, bensulfuron-Me, metsulfuron-Me, pyrazosulfuron-Et, tribenuron-Me, imazosulfuron, fenclorim, fenchlorazole, fenoxaprop-Et; plant growth regulators: gibberellic acid, cytokinins, kinetin, mepiquat chloride, DCPTA; and **fungicides**: jinggangmycin and thiophanate etc. The synergist is selected from cyclodextrin, anilofos, etc. The floating carrier comprises carrier with apparent d. of less than 1, oily substance, **surfactant** and stabilizer. The carrier is selected from expanded perlite, vermiculite, zeolite, coal ash, macromol. foam material, pulverized maize core, etc.; the oily substance from paraffin oil, glyceryl ester, animal oil, vegetable oil, mineral oil, etc.; the **surfactant** from alkylsulfonate, alkyl sulfate, alkylbenzenesulfonate, etc.; and the stabilizer from BaSO4, CaSO4, KH2PO4, zeolite, etc. The process comprises mixing active component and synergist at 10-45°, milling, and mixing with floating carrier.

IT **23564-06-9**, Thiophanate
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(preparation of floating-type agrochems. for rice field)
RN 23564-06-9 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, diethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 5 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:573601 HCAPLUS
DOCUMENT NUMBER: 133:173420
TITLE: Light, extruded pesticidal compositions containing a ceramic carrier for water surface application in paddy fields
INVENTOR(S): Takayanagi, Norikazu; Kimpara, Masaomi; Suzuki, Munehiro
PATENT ASSIGNEE(S): American Cyanamid Company, USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047044	A1	20000817	WO 2000-US3073	20000207 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361532	AA	20000817	CA 2000-2361532	20000207 <--
AU 2000029833	A5	20000829	AU 2000-29833	20000207 <--
AU 768396	B2	20031211		
BR 2000008120	A	20011106	BR 2000-8120	20000207 <--
EP 1150562	A1	20011107	EP 2000-908506	20000207 <--
EP 1150562	B1	20040428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002536385	T2	20021029	JP 2000-598004	20000207
NZ 513715	A	20030530	NZ 2000-513715	20000207
AT 265137	E	20040515	AT 2000-908506	20000207
PT 1150562	T	20040730	PT 2000-908506	20000207
ES 2219315	T3	20041201	ES 2000-908506	20000207
EG 22636	A	20030531	EG 2000-147	20000208
TW 557199	B	20031011	TW 2000-89102180	20000210
BG 105862	A	20020531	BG 2001-105862	20010831
ZA 2001007438	A	20021217	ZA 2001-7438	20010910

PRIORITY APPLN. INFO.: US 1999-248859 A 19990211
WO 2000-US3073 W 20000207

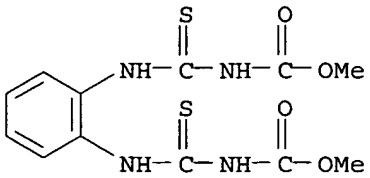
AB The light, extruded compns. comprise a pesticide, a light, extrudable, ceramic carrier and at least one surface active agent, and, optionally, a mineral carrier and a binder. The compds. are used for applying

pesticides to the water surface of paddy rice fields.

IT **23564-05-8**, Thiophanatemethyl
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(**fungicide** in light, extruded pesticidal compns. containing ceramic carrier for water surface application)

RN 23564-05-8 HCAPLUS

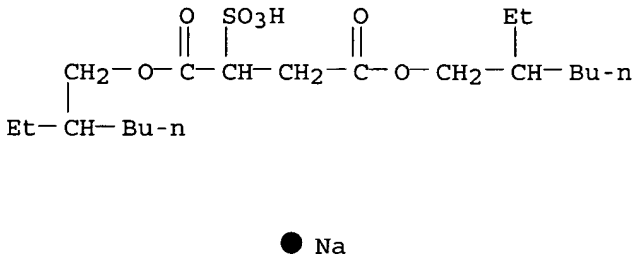
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



IT **577-11-7**, Newkalgen EP 70G
RL: MOA (Modifier or additive use); USES (Uses)
(**surfactant** in light, extruded pesticidal compns. containing ceramic carrier for water surface application)

RN 577-11-7 HCAPLUS

CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 6 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:603426 HCAPLUS
DOCUMENT NUMBER: 131:210406
TITLE: Storage-stable pesticide suspensions containing **surfactants** and manufacture thereof
INVENTOR(S): Maegawa, Yuichi; Tanaka, Nobuyuki
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11255602	A2	19990921	JP 1998-73092	19980309 <--

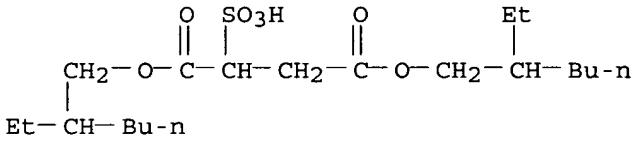
PRIORITY APPLN. INFO.: JP 1998-73092 19980309

AB The suspensions, which can be diluted with either H2O or nonaq. solvents,

are manufactured by adding pesticides to mixts. of sorbitan fatty acid ester or sucrose fatty acid ester **surfactants**, nonionic **surfactants** (HLB 8-15), and nonaq. solvents incompatible with H2O and uniformly blending the mixts. Stanohl LP 35 (paraffin oil), Newcol 80 (sorbitan monooleate, HLB 6.4), and Newcol 1210 (polyoxyethylene oleyl ether, HLB 12.4) were uniformly mixed, homogenized with thiophanate-Me powder and Benton 34 (bentonite), and pulverized to give a storage-stable **fungicide** suspension.

IT **577-11-7 1338-43-8**, Newcol 80 **9002-92-0**, Newcol 1100 **9004-98-2**, Newcol 1210 **9016-45-9**, Newcol 564
RL: AGR (Agricultural use); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses)
(storage-stable pesticide suspensions containing nonionic **surfactants** for dilution with H2O or nonaq. solvents)

RN 577-11-7 HCAPLUS
CN Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (9CI) (CA INDEX NAME)

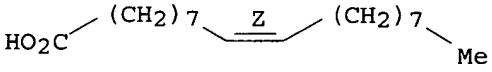


RN 1338-43-8 HCAPLUS
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1
CMF C18 H34 O2

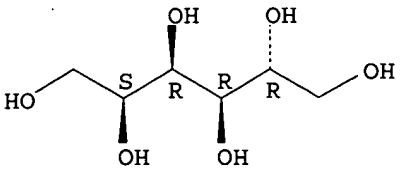
Double bond geometry as shown.



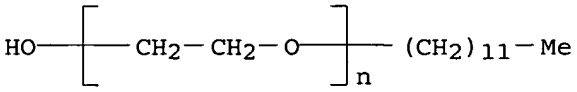
CM 2

CRN 50-70-4
CMF C6 H14 O6

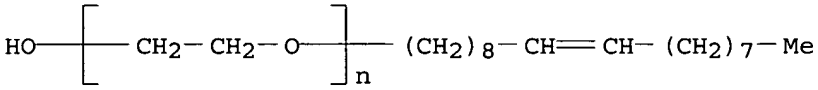
Absolute stereochemistry.



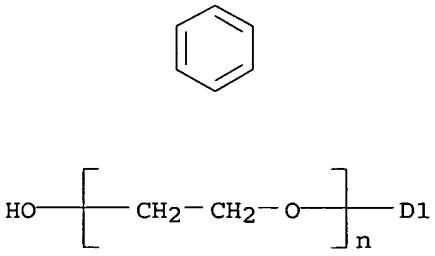
RN 9002-92-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



RN 9004-98-2 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(9Z)-9-octadecenyl-ω-hydroxy- (9CI) (CA INDEX NAME)

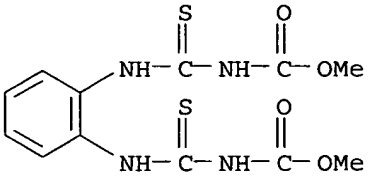


RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



D1— $(CH_2)_8$ —Me

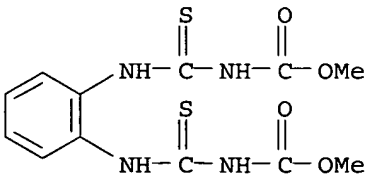
IT **23564-05-8**, Thiophanate-methyl
RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study); USES (Uses)
(storage-stable pesticide suspensions containing nonionic **surfactants** for dilution with H2O or nonaq. solvents)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 7 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:739397 HCAPLUS
DOCUMENT NUMBER: 128:44936
TITLE: Systemic pesticide composition and method for treating citrus during pruning or grafting
INVENTOR(S): Mizobe, Shinji; Miyata, Akiyoshi; Saito, Kenji
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan; Yamaguchi Prefecture
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09291002	A2	19971111	JP 1996-354437	19961219 <--
PRIORITY APPLN. INFO.:			JP 1996-69290 A	19960229

OTHER SOURCE(S): MARPAT 128:44936
AB A composition for controlling pests on citrus fruits contains a systemic insecticide (I) of the formula RNAC(:YX)B at 0.1-10% by weight and a vinyl acetate-type polymer; the composition is applied to the cut surface in pruning or injected into grafts. In I, R = H, formyl, acetyl, C1-4 alkyl, 2-chloro-5-pyridylmethyl, or 2-chloro-5-thiazolylmethyl; A = H, C1-4 alkyl, or is bonded with B to form, e.g., an ethylene group; B = C1-4 alkyl, SR2 (R2 = C1-4 alkyl), etc.; Y = N or CR3 (R3 = H or C1-4 alkyl); X = nitro or cyano. Such formulations may also contain a systemic antimicrobial agent. Thus, applying a composition containing acetamiprid 2, vinyl acetate adhesive 80, and **surfactant**, etc. 18% to the cut surface of a Citrus unshiu branch prevented damage by citrus leaf miner.
IT **23564-05-8**, Topsin M
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(pesticide compns. and method for treating citrus during pruning or grafting)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



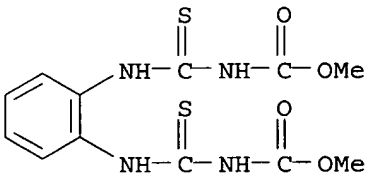
L38 ANSWER 8 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:999745 HCAPLUS
DOCUMENT NUMBER: 124:48311
TITLE: Wettable compositions for seed sterilization
INVENTOR(S): Kurotsu, Juichi; Noguchi, Tatsuo; Nabeya, Yoshihiko; Yonemura, Shinji
PATENT ASSIGNEE(S): Hokko Chem Ind Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07252103	A2	19951003	JP 1994-66416	19940311 <--
JP 3257896	B2	20020218		
PRIORITY APPLN. INFO.:			JP 1994-66416	19940311

AB Wettable compns. contain (a) active ingredients, (B) urea, sugars, and/or modified starch as water-soluble extenders, and (C) nonionic and/or anionic **surfactants** at a such amount so that the surface tension of a dispersion, in which the resulting wettable compns. are dispersed in 10 weight parts H2O, show 25-55 mN/m at 20°. Ppts., formed when a larger amount of compns. are dispersed in H2O, are easily redispersed by shaking. Benomyl 20, polyoxyethylene sorbitan fatty acid ester 5, and urea 75 parts were pulverized to give a wettable powders.

IT **23564-05-8**, Thiophanate methyl
RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study); USES (Uses)
(wettable seed sterilizing compns. containing **surfactants** and urea and/or sugars as extenders with good redispersibility)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

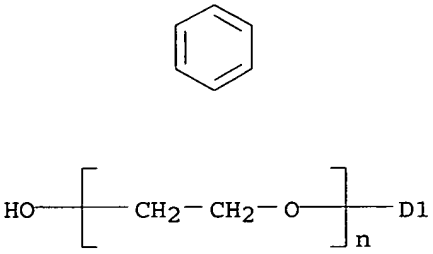


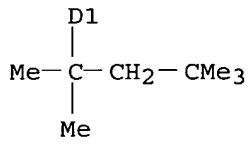
L38 ANSWER 9 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:75250 HCAPLUS
DOCUMENT NUMBER: 118:75250
TITLE: Comparative effects of an antitranspirant, **surfactants** and **fungicides** on Mucor rot of tomatoes in storage
AUTHOR(S): Reyes, Andres A.
CORPORATE SOURCE: Res. Stn., Agric. Canada, Vineland Station, ON, L0R 2E0, Can.
SOURCE: Microbios (**1992**), 71(288-289), 235-41
CODEN: MCBIA7; ISSN: 0026-2633
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Three **fungicides** (iprodione, thiophanate-Me and vinclozolin), two **surfactants** (Triton Ag-98 and Triton XR) and one antitranspirant (masbrane) were tested for their ability to suppress spore germination and germ tube growth of Mucor mucedo in potato dextrose agar at 15°. Triton Ag-98 and Triton XR were highly suppressive, iprodione and masbrane moderately suppressive, and thiophanate-Me and vinclozolin slightly so. These chems. were also evaluated as dips for the suppression of Mucor rot of tomatoes in storage at 15°. The only effective chems. were Triton Ag-98 and Triton XR. Chemical control was improved by storing treated tomatoes in a controlled atmospheric of 91% N2 + 7.5% CO + 1.5% O2.

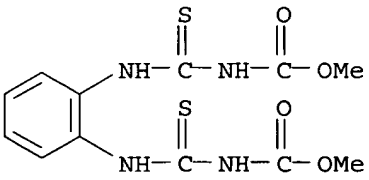
IT **9036-19-5 23564-05-8**, Thiophanate-methyl
RL: BIOL (Biological study)
(spore germination and germ tube growth of Mucor mucedo suppression by, rot control in stored tomatoes in relation to)

RN 9036-19-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)





RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

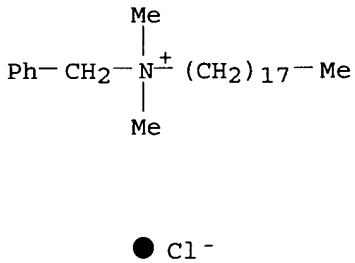


L38 ANSWER 10 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:464582 HCAPLUS
DOCUMENT NUMBER: 117:64582
TITLE: Salmonella mutagenicity tests: V. Results from the testing of 311 chemicals
AUTHOR(S): Zeiger, Errol; Anderson, Beth; Haworth, Steve; Lawlor, Timothy; Mortelmans, Kristien

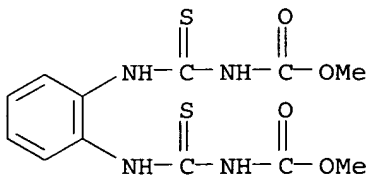
CORPORATE SOURCE: Exp. Carcinog. Mutagen. Branch, Natl. Inst. Environ. Health Sci., Research Triangle Park, NC, USA
SOURCE: Environmental and Molecular Mutagenesis (**1992**), 19(Suppl. 21), 2-141
CODEN: EMMUEG; ISSN: 0893-6692
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Three hundred eleven chems. were tested under code, for mutagenicity, in S. typhimurium; 35 of the chems. were tested more than once in the same or different labs. The tests were conducted using a preincubation protocol in the absence of exogenous metabolic activation, and in the presence of liver S-9 from Aroclor-induced male Sprague-Dawley rats and Syrian hamsters. Some of the volatile chems. were also tested in desiccators. A total of 120 chems. were mutagenic or weakly mutagenic, 3 were judged questionable, and 172 were nonmutagenic. The remaining 16 chems. produced different responses in the two or three labs. in which they were tested. The results and data from these tests are presented.

IT **122-19-0**
RL: BIOL (Biological study)
(mutagenicity of, testing of)
RN 122-19-0 HCAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



IT **23564-05-8**
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(mutagenicity of, testing of)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



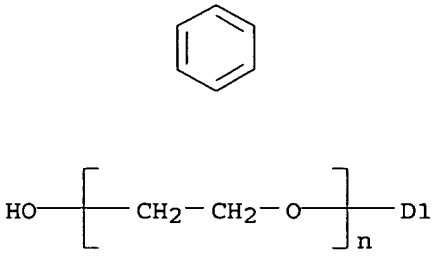
L38 ANSWER 11 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:553069 HCAPLUS
DOCUMENT NUMBER: 115:153069
TITLE: Effect of selected pesticides on survival of Colletotrichum gloeosporioides f. sp. malvae, a bioherbicide for round-leaved mallow (Malva pusilla)
AUTHOR(S): Grant, Nelson T.; Prusinkiewicz, Elizabeth; Makowski,

Roberte M. D.; Holmstrom-Ruddick, Britt; Mortensen, Knud
CORPORATE SOURCE: Philom Bios Inc., Saskatoon, SK, Can.
SOURCE: Weed Technology (**1990**), 4(4), 701-15
CODEN: WETEE9; ISSN: 0890-037X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Com. formulations of 33 herbicides, 12 **fungicides**, and 16 adjuvants were evaluated for their toxic effects on germination of C. gloeosporioides f. sp. malvae spores. At the recommended rates, none of the herbicides for grass weed control (diclofop, difenzoquat, fenoxaprop-Et, flamprop-Me, and sethoxydim) or formulated herbicides registered for both broadleaf and grass weed control [diclofop plus bromoxynil (23:8), propanil, and propanil plus MCPA (7:2)] were compatible with these spores. Spore germination and appressorial formation recorded 24 h after exposure were totally inhibited by these herbicides. At recommended rates, herbicides for broadleaf weed control (2,4-D ester, 2,4-D amine, benazolin, bentazon, clopyralid, cyanazine, cyanazine plus MCPA (1:2), dicamba, dicamba plus MCPA (1:4), dicamba plus mecoprop plus MCPA (1:1:4.4), dicamba plus 2,4-D plus mecoprop (4.2:11:3), MCPA amine, MCPA-K, MCPA-Na, and metribuzin), caused ≤ 20% reduction in spore germination, and appressorial formation was not significantly reduced except by benazolin and metribuzin. Cyanazine and dicamba at recommended rates increased appressorial formation without reducing germination compared to the control. At lower concns., the other herbicides recommended for broadleaf weed control (2,4-DB, bromoxynil, bromoxynil plus MCPA (1:1), dichlorprop plus 2,4-D (1:1), imazethapyr, linuron, and picloram) were less toxic to these spores. The **fungicide** triadimefon at recommended rate had no effect on the spores. Dicloran reduced germination > 50% at recommended rate and growth was distorted. At recommended rates, spore germination was inhibited by >90% with benomyl, carbathiin, chlorothalonil, iprodione, mancozeb, and thiophanate-Me although germination increased as concentration declined. Spore germination was totally inhibited at all concns. with ferbam, thiram, and captan. Exposure to the adjuvants, Agral 90, Alkasurf-OP-10, Atplus-555, Citowett Plus, Enhance, Renex 36, Triton XR, and X-77, inhibited spore germination and reduced spore production compared to the control. Spore germination was significantly higher in suspensions containing ammonium sulfate, Assist, Bio-veg, CD-407, and Tween 20, as well as with starch, sucrose, and water (control) than with the other adjuvants. Spore production was higher in suspensions containing starch and Bio-veg than in those with water and the other adjuvants.

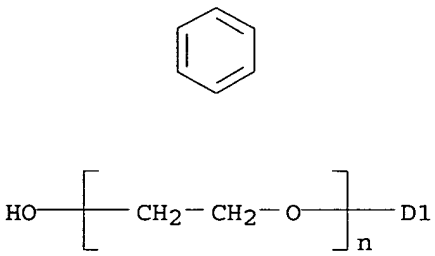
IT **9016-45-9**, Agral 90 **9036-19-5**, Alkasurf OP 10
23564-05-8
RL: BIOL (Biological study)
(Colletotrichum gloeosporioides malvae spore germination response to)

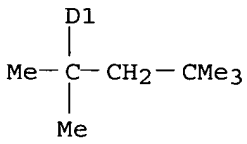
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



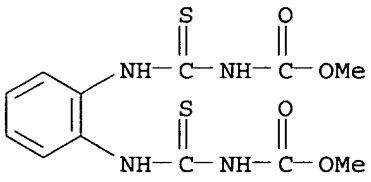
D1— $(CH_2)_8$ —Me

RN 9036-19-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)



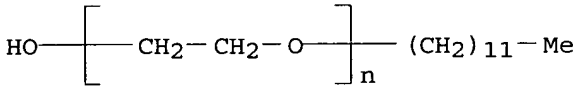


RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

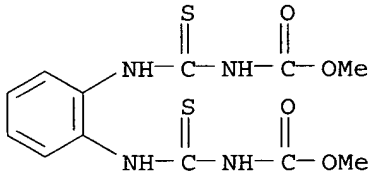


L38 ANSWER 12 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:472754 HCAPLUS
DOCUMENT NUMBER: 113:72754
TITLE: Toxicity of pesticides to some aquatic animals. XI. Toxicity of some pesticides to tadpoles
AUTHOR(S): Nishiuchi, Yasuhiro
CORPORATE SOURCE: Noyaku Kensasho, Tokyo, Japan
SOURCE: Seitai Kagaku (**1989**), 9(4), 23-6

CODEN: SKGKDR; ISSN: 0386-8141
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB The toxicity of agrochems., including insecticides, **fungicides**, herbicides, plant growth regulators, rodenticides, etc., was tested on tadpoles of Rana brevipoda porosa. Pyrethrin, thiocyclam, bromopropylate, polynactin, and dithianon showed potent toxicity to the tadpoles (LC50 <1 ppm). In contrast, the toxicity was low for acephate, diflubenzuron, kasugamycin, thiophanate Me, validamycin, polyoxin, MAFA, diquat, triclopyr, maleic hydrazide choline, DPA, dichlorprop, maleic hydrazide ethanolamine, wax, and thallium sulfate (LC50 >100 ppm).
IT **9002-92-0 23564-05-8**, Thiophanate methyl
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(toxicity of, to tadpoles of Rana brevipoda parosa)
RN 9002-92-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)



RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 13 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:227162 HCAPLUS
DOCUMENT NUMBER: 110:227162
TITLE: Boron-containing wood preservative and thickeners
INVENTOR(S): Evans, David Lloyd
PATENT ASSIGNEE(S): Hickson Timber Protection (N. Z.) Ltd., N. Z.
SOURCE: Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

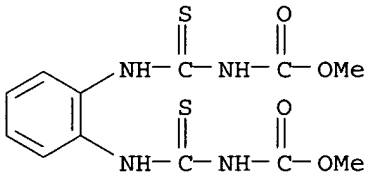
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 289317	A1	19881102	EP 1988-303860	19880428 <--
EP 289317	B1	19930303		
R: AT, BE, DE, FR, GB, IT, NL, SE				
CA 1329311	A1	19940510	CA 1988-565164	19880426 <--
FI 8801976	A	19881029	FI 1988-1976	19880427 <--
AU 8815201	A1	19881103	AU 1988-15201	19880427 <--
AU 614958	B2	19910919		

US 5129946 A 19920714 US 1991-652317 19910207 <--
PRIORITY APPLN. INFO.: NZ 1987-220130 A 19870428
NZ 1987-221810 A 19870915
NZ 1988-223277 A 19880122
US 1988-187296 B1 19880428

AB A wood preservative composition comprises B-containing compds. and also contains a thickener. A typical wood preservative composition contained boric acid 18.75, borax 22.14, H2O 34.11, Nalcatrol II (80% dispersion in kerosene) 1.3, magnafloc E24 solution in H2O and MeOH 0.5 weight%.

IT **23564-05-8**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(**fungicides**, wood preservatives containing)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)

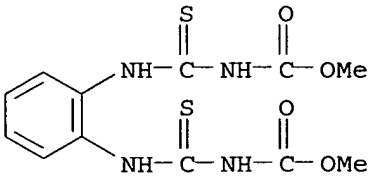


L38 ANSWER 14 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:472714 HCAPLUS
DOCUMENT NUMBER: 107:72714
TITLE: The role of adjuvants in the foliar absorption of benzimidazoles and in controlling leaf spots of groundnut
AUTHOR(S): Tiwari, R. K. S.; Vyas, S. C.; Shastry, P. P.
CORPORATE SOURCE: Dep. Plant Pathol., J.N. Agric. Univ., Jabalpur, 482 004, India
SOURCE: Indian Journal of Plant Protection (**1987**), 15(1), 71-5
CODEN: IPLPDQ; ISSN: 0253-4355
DOCUMENT TYPE: Journal
LANGUAGE: English

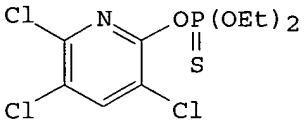
AB An addition of 1% Tween-80 to com. formulations of benzimidazoles, which already contained **surfactants**, substantially improved foliar absorption by potted peanuts (groundnut; Arachis hypogaea) and improved control of early and late leaf spots caused by Cercospora arachidicola and Phaeoisariopsis personata, resp. With Tween-80, 2 sprays of carbendazim, benomyl, or thiophanate-Me decreased the leaf area damaged by leaf spots from 48.80 to 12.65, 15.37, and 27.02%, resp. Glycerol enhanced foliar absorption of benzimidazoles less effectively than did Tween-80.

IT **23564-05-8**, Thiophanate-methyl
RL: BIOL (Biological study)
(peanut leaf spot control by, Tween-80 effect on)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 15 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:163325 HCAPLUS
DOCUMENT NUMBER: 104:163325
TITLE: Toxicity of pesticides to some aquatic animals. VII. Acute toxicity to Daphnia magna
AUTHOR(S): Nishiuchi, Yasuhiro
CORPORATE SOURCE: Noyaku Kensasho, Obira, Japan
SOURCE: Seitai Kagaku (**1985**), 8(2), 15-20
CODEN: SKGKDR; ISSN: 0386-8141
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI

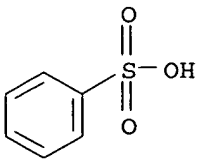


I

AB The acute toxic effect of 16 insecticides, 14 **fungicides**, 15 herbicides, 4 rodenticides, 31 plant growth regulators, and 19 other agrochems. was tested on D. magna. Chlorpyrifos (I) [2921-88-2], sulprofos [35400-43-2], diazinon [333-41-5], and pyrazofos [13457-18-6] showed strong toxic effects on D. magna with median lethal concentration values of <0.1 ppm. In contrast, tetradifon [116-29-0], morantel tartrate [26155-31-7], pyroquilon [57369-32-1], pyrazoxyfen [71561-11-0], pendimethalin [40487-42-1], fothaminammonium [25954-13-6], dalapon [75-99-0], rodenticides, plant growth regulators, and other agrochems. showed weak toxic effects against D magna. The toxic effect of these tested agrochems. on D. magna is comparable to that on conventionally tested D. pulex.

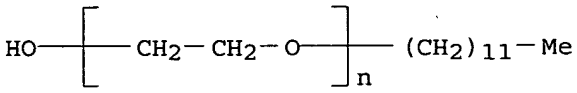
IT **98-11-3D**, Benzenesulfonic acid, alkyl derivs., calcium salts **9002-92-0 9016-45-9 23564-05-8**
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (toxicity of, to Daphnia magna)

RN 98-11-3 HCAPLUS
CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)

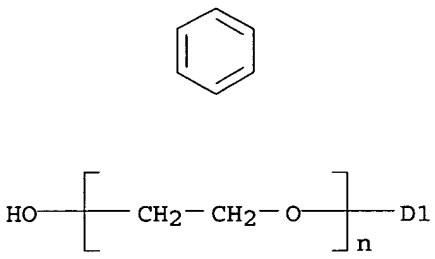


RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy- (9CI) (CA INDEX NAME)

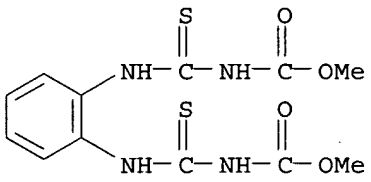


RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



D1— $(CH_2)_8$ —Me

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 16 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:571221 HCAPLUS
DOCUMENT NUMBER: 99:171221
TITLE: Chemotherapy of the bacterial blight of beans
AUTHOR(S): Stancescu, C.; Severin, V.
CORPORATE SOURCE: Inst. Cercet. Prot. Plantelor, Bucharest, Rom.
SOURCE: Analele Institutului de Cercetari pentru Protectia Plantelor, Academia de Stiinte Agricole si Silvice (**1981**), Volume Date 1980, 16, 75-83
CODEN: APSVBN; ISSN: 0365-575X
DOCUMENT TYPE: Journal
LANGUAGE: Romanian
AB Of 60 pesticides, 44 pesticide mixts., 10 antibiotics, and 6 **surfactants** screened in vitro against Xanthomonas phaseoli, X. fuscans, and Pseudomonas phaseolicola, Dithane M 45 [8018-01-7], Vondozeb [8018-01-7], TMTD [137-26-8], Entontan [87347-48-6], Lekinol 15PP [65979-28-4], Biocid ETA [87347-51-1], Criptodin [12679-77-5], chloramphenicol [56-75-7], Funaben [10605-21-7], Silodor [61970-56-7],

and carbendazim-maneb mixture [52080-81-6] were the most effective. Bacterial bean blight, caused by the above species, was partially controlled in field expts. by PEI-24 [Cu(OH)2] [1344-69-0], Kocide-101 [20427-59-2], Criptonol [134-31-6], Biocid ETA, Tioman V [**60240-47-3**], and the exptl. product A.C.-8 [87347-20-4].

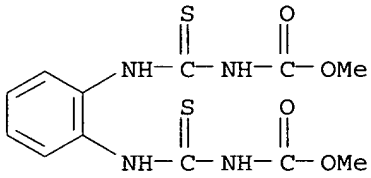
IT **60240-47-3**
RL: BIOL (Biological study)
(bacterial blight control by, on bean)

RN 60240-47-3 HCAPLUS

CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']zinc (9CI) (CA INDEX NAME)

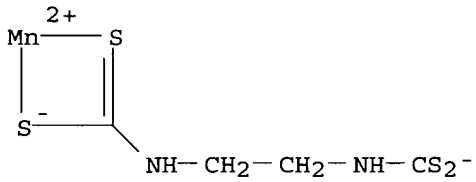
CM 1

CRN 23564-05-8
CMF C12 H14 N4 O4 S2



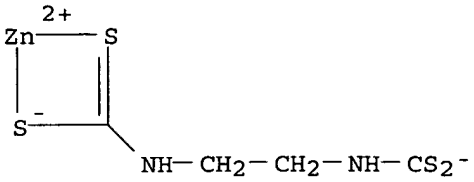
CM 2

CRN 12427-38-2
CMF C4 H6 Mn N2 S4
CCI CCS



CM 3

CRN 12122-67-7
CMF C4 H6 N2 S4 Zn
CCI CCS



L38 ANSWER 17 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:217466 HCAPLUS
DOCUMENT NUMBER: 98:217466
TITLE: Preservative compositions for wood and its products
INVENTOR(S): Hayward, Peter James; Naish, Raymond William; Rae, Wallace James
PATENT ASSIGNEE(S): Ivon Watkins-Dow Ltd., N. Z.
SOURCE: Pat. Specif. (Aust.), 55 pp.
CODEN: ALXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

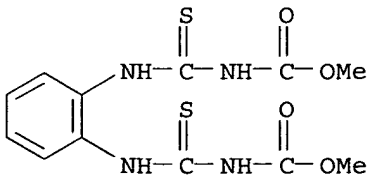
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AU 526886	B2	19830203	AU 1978-36600	19780529 <--
AU 7836600	A1	19791206		

PRIORITY APPLN. INFO.: NZ 1977-184225 A 19770527
NZ 1977-185127 A 19770907

AB The addition of H2O-soluble cationic **surfactant**, such as benzalkonium chloride, hexadecylpyridinium chloride, etc. to **fungicide** solution in organic solvents gave wood preservative concentrate dispersible in water. Thus, toothpicks of Pinus radiata were soaked for 5 min in 5% Me2CO solution of a concentrate containing alkyldimethylamine acetate 60, pentachlorophenol [87-86-5] 20, cyclohexanone 10 and butoxyethanol 10% to give a specimen which showed better resistance against soft rot decay when incubated in soil with 60% moisture content for 8 wk at 20° than specimens treated with Cu chrome arsenate salts or the alkyldimethylamine acetate alone.

IT **23564-05-8**
RL: USES (Uses)
(wood presevatives, water-dispersible, containing cationic **surfactants**)

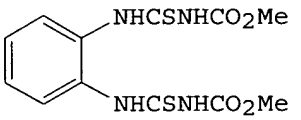
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 18 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:594592 HCAPLUS
DOCUMENT NUMBER: 97:194592
TITLE: Low volume-type synergistic **fungicide** composition
INVENTOR(S): Baicu, Tudorel; Popescu, Georgeta; Iliuta, Ion; Ene, Iulia; Rascanescu, Mircea; Uglea, Constantin; Szekely, Iosif; Galusinschi, Alexandra
PATENT ASSIGNEE(S): Institutul de Cercetari pentru Protectia Plantelor, Rom.
SOURCE: Rom., 5 pp.
CODEN: RUXXA3
DOCUMENT TYPE: Patent
LANGUAGE: Romanian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RO 71912	B	19820510	RO 1977-91717	19771001 <--
PRIORITY APPLN. INFO.:			RO 1977-91717	19771001

GI



II

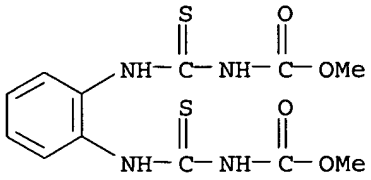
AB A low-volume synergistic mancozeb-Me thiophanate mixture (I-II) [**60240-47-3**] is formulated using a petroleum distillate (b.p. > 300°), a cationic **surfactant** adsorbed on bentonite, montmorillonite or bravaisite, and an excess of nonadsorbed **surfactant.** Thus, a composition is given, containing 8.8% II and 30% I, suspended in a petroleum fraction b. >300°, as well as 2-5% bentonite containing adsorbed C14-18 aliphatic amine and 2-5% free C14-18 aliphatic amine. The formulation (1.24 kg active ingredient/ha) almost totally controlled Cercospora beticola on sugar beet.

IT **60240-47-3**
RL: PROC (Process)
(low-volume formulation of)

RN 60240-47-3 HCAPLUS
CN Manganese, [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[2-[(dithiocarboxy)amino]ethyl]carbamodithioato(2-)-κS,κS']zinc (9CI) (CA INDEX NAME)

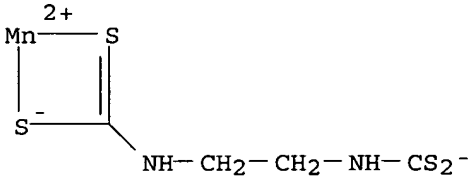
CM 1

CRN 23564-05-8
CMF C12 H14 N4 O4 S2



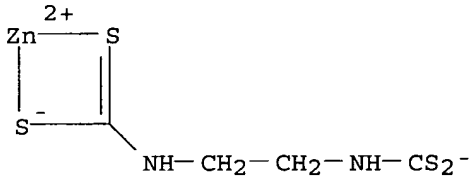
CM 2

CRN 12427-38-2
CMF C4 H6 Mn N2 S4
CCI CCS



CM 3

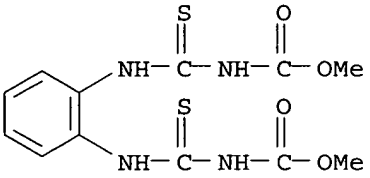
CRN 12122-67-7
CMF C4 H6 N2 S4 Zn
CCI CCS



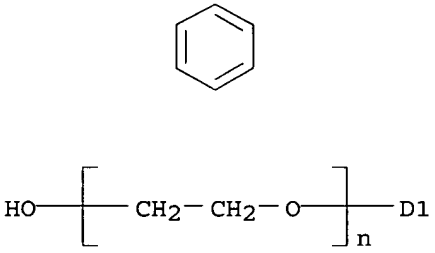
L38 ANSWER 19 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:577005 HCAPLUS
DOCUMENT NUMBER: 97:177005
TITLE: Interaction of pesticides with nonionic tenzides and amino acids studied by OPTLC
AUTHOR(S): Cserhati, T.; Bordas, B.; Tyihak, E.; Bohus, P.
CORPORATE SOURCE: Res. Inst. Plant Prot., Budapest, H-1525, Hung.
SOURCE: Proc. Int. Symp. Instrum. High Perform. Thin-Layer Chromatogr., 2nd (**1982**), 74-88. Editor(s): Kaiser, Rudolf E. Inst. Chromatogr.: Bad Duerkheim, Fed. Rep. Ger.
CODEN: 48RSAB
DOCUMENT TYPE: Conference
LANGUAGE: English
AB The possibility to apply overpressured thin-layer chromatog. (OPTLC) to measure the relative energies of adsorptive interactions is discussed.

The adsorption of 23 nonionic tenzides and 2 amino acids on 6 different pesticides was studied and the data were evaluated by principal component anal. The energies of interaction increase with decreasing number of ethylene-oxide groups per mol.; the binding energies were higher in ionic environment and the 6 pesticides showed various adsorptive patterns. The amino acids were adsorbed very weekly on the pesticides making improbable the formation of pesticide-protein complexes.

IT **23564-05-8**
RL: PRP (Properties)
(interaction of, with nonionic tenzides and amino acids)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



IT **9016-45-9**
RL: BIOL (Biological study)
(pesticides interaction with)
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)

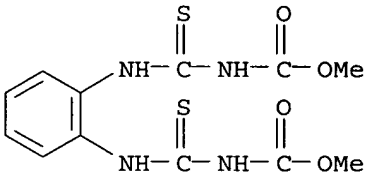


D1— $(CH_2)_8$ —Me

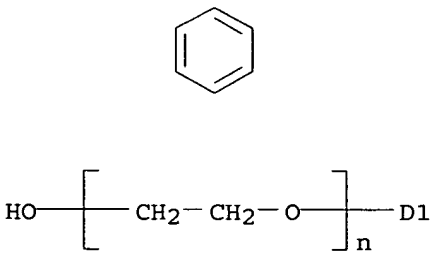
L38 ANSWER 20 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:157202 HCAPLUS
DOCUMENT NUMBER: 96:157202
TITLE: Adjuvant effects of poly(oxyethylene) sorbitan fatty acid esters on the **fungicidal** action of **fungicides**
AUTHOR(S): Kawashima, Kazuo; Takeno, Tsuneyuki
CORPORATE SOURCE: Wakayama Res. Lab., Kao Soap Co., Ltd., Wakayama, 1334, Japan
SOURCE: Yukagaku (**1982**), 31(3), 163-6
CODEN: YKGKAM; ISSN: 0513-398X
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
AB Adjuvant effects of Tween 80 [9005-65-6] on the **fungicidal**

action of benomyl [17804-35-2] were studied using six plant pathogens grown on solid medium. The effects reached maximum at 5000.apprx.10,000 ppm of Tween 80, while the sole system of Tween 80 did not show **fungicidal** action even at such high concns. Adjuvant effects of 4 other poly(oxyethylene) sorbitan fatty acid esters on the **fungicidal** action of benomyl were also observed and appeared to be maximum at an approx. hydrophylic-lipophilic balance of 12. Effects of Tween 80 on **fungicidal** actions of thiophanate methyl [**23564-05-8**], maneb [12427-38-2], and triazine [101-05-3] in addition to benomyl were examined and adjuvant effects were observed with all except triazine. Phytotoxicity of Tween 80 to soybean and rice plant seedlings was extremely weak compared with Emulgen 910 [**39475-46-2**]. It was supposed that adjuvant effects of Tween 80 might be due to increase in solubility of **fungicides** in water.

IT **23564-05-8**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(**fungicidal** activity of, poly(oxyethylene) sorbitan fatty acid esters effect on)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



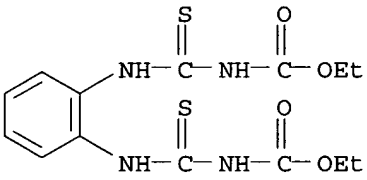
IT **9016-45-9**
RL: PRP (Properties)
(phytotoxicity of, on soybean and rice)
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy- (9CI) (CA INDEX NAME)



D1— $(CH_2)_8$ —Me

L38 ANSWER 21 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1982:57410 HCAPLUS
DOCUMENT NUMBER: 96:57410
TITLE: Effect of present water pollution on microbial

activity
AUTHOR(S): Daubner, Imrich; Toth, Dezider
CORPORATE SOURCE: Ustav Exp. Biol. Ekol., SAV, Bratislava, Czech.
SOURCE: Vodni Hospodarstvi: B (**1981**), 31(8), 205-10
CODEN: VHOBAF; ISSN: 0322-8231
DOCUMENT TYPE: Journal
LANGUAGE: Slovak
AB **Fungicides**, herbicides, **surfactants**, and hydrocarbons affect the metals of microorganism in the biol. mineralization of organic compds. in wastewaters. **Fungicides** had no effect at ≤10 mg/L. The most active was Dithan [12656-69-8]. Herbicides ("-triazine derivs.) were ineffective at ≤100 mg/L. **Surfactants** were utilized as C and N sources. Crude petroleum fractions had inhibiting effect at 0.2% on the growth of the microorganisms; the most active in the hydrocarbon degradation was Pseudomonas aeruginosa.
IT **23564-06-9**
RL: POL (Pollutant); OCCU (Occurrence)
(water pollution by, microbial activity in relation to)
RN 23564-06-9 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, diethyl ester (9CI) (CA INDEX NAME)



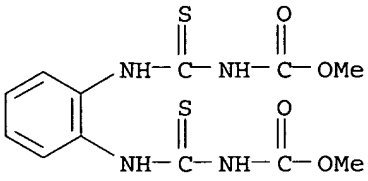
L38 ANSWER 22 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:123206 HCAPLUS
DOCUMENT NUMBER: 92:123206
TITLE: Influence of **surfactants** on effectiveness of benzimidazole **fungicides** in control of apple scab
AUTHOR(S): Nowacka, Halina; Goszczynski, Wlodzimierz; Plich, Miroslawa
CORPORATE SOURCE: Res. Inst. Pomol. Floricult., Skiemiewice, Pol.
SOURCE: Fruit Science Reports (**1979**), 6(2), 67-76
CODEN: FSREDB; ISSN: 0137-1479
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The effect of **surfactants**, e.g. Euphytan extra and Triton CS, on the effectiveness of Topsin M [**23564-05-8**] and Funaben [10605-21-7] in control of apple scab was examined In field expts., these **surfactants** permitted ≤3-fold reduction of Topsin M and Funaben 50 spray concentration without lowering their effectiveness. Good results were obtained when no resistance of the pathogen to benzimidazole **fungicides** was observed, or when this resistance was not very high. In case of high level of resistance to the benzimidazole **fungicides**, neither the **surfactants** nor the above **fungicides** were effective in control of apple scab, regardless of the concentration of the **fungicide.** In laboratory expts. in vitro, Euphytan extra had no effect on the growth of Venturia inaequalis. Adding Euphytan extra to Topsin M and Funaben did not affect their effectiveness. Triton CS at 50 ppm was **fungicidal.** Addition of Euphytan extra (10.03%) to Topsin M increased the level of MBC residues in the fruit in comparison

to the residue level found when Topsin M alone was used in the same concentration

IT **23564-05-8**
RL: BIOL (Biological study)
(in control of apple scab, **surfactants** effect on)

RN 23564-05-8 HCAPLUS

CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



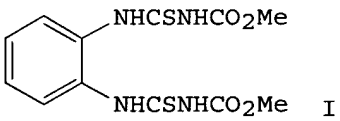
L38 ANSWER 23 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:401384 HCAPLUS
DOCUMENT NUMBER: 91:1384
TITLE: **Fungicide** based on dimethylol-4,4-O-phenyl-bis(3-thioallophanate)
INVENTOR(S): Popescu, Georgeta; Baicu, Tuderel; Iliuta, Ion; Ene, Iulia; Rascanescu, Mircea; Uhlea, Constantin; Galusinschi, Alexandra; Gerogescu, Emil
PATENT ASSIGNEE(S): Centrala Industriala de Produse Anorganice, Rom.
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2830042	A1	19790412	DE 1978-2830042	19780707 <--
RO 66706	B	19820324	RO 1977-91718	19771001 <--
GB 2008949	A	19790613	GB 1978-28134	19780628 <--
GB 2008949	B2	19820407		
CH 637266	A	19830729	CH 1978-9758	19780919 <--

PRIORITY APPLN. INFO.: RO 1977-91718 A 19771001

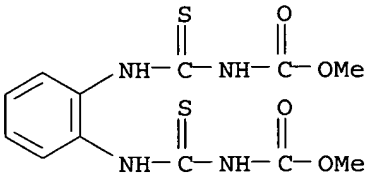
GI



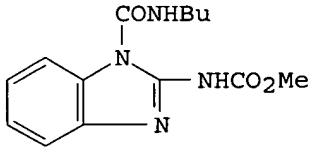
I

AB A nonphytotoxic Me thiophanate (I) [**23564-05-8**] formulation, applicable as an ultralow-volume spray is given. It consists of 20-35% by weight I, suspended in a petroleum fraction b. ≤300°, a nonionic **surfactant**, and 2-5% bentonitetreated with an aliphatic amine (C14-18). The formulation was not phytotoxic to the common crop species. Thus, the above formulation applied in field expts. at 0.7 L/ha, almost completely controlled Cercospora beticola on sugar beet.

IT **23564-05-8**
RL: PROC (Process)
(ultra low-volume formulation of)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 24 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:181405 HCAPLUS
DOCUMENT NUMBER: 90:181405
TITLE: Effect of **surfactants** on **fungicide** efficiency
AUTHOR(S): Kobakhidze, D. M.; Shevchenko, T. V.; Toskina, V. A.
CORPORATE SOURCE: USSR
SOURCE: Byulleten Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Zashchity Rastenii (**1977**), 40, 26-9
CODEN: BVZRAU; ISSN: 0459-0864
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

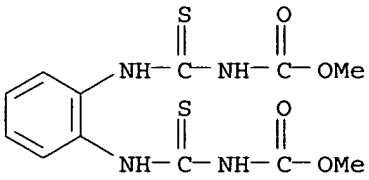


I

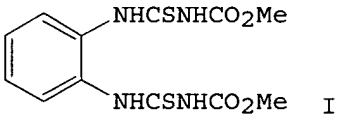
AB Spraying wheat in the greenhouse with 0.005% benomyl (I) [17804-35-2] amended with 0.1% Triton CS-7 [53795-57-6], Tween 20 [9005-64-5], OP-7 [**11100-29-1**], Tween 40 [9005-66-7], Tween 60 [9005-67-8], or Tween 80 [9005-65-6] completely controlled powdery mildew which infected untreated controls and controls treated with I alone by 57.5 and 8.2%, resp. I plus the **surfactants** also completely or almost completely controlled powdery mildew on greenhouse cucumbers, whereas I alone decreased the infestation from 52.5 to 28.8%. Triton CS-7, however, caused yellowing and curling of leaves. Triton CS-7 increased the effectiveness of control of powdery mildew on cucumbers in the field by 0.1% Topsin M [**23564-05-8**] , of powdery mildew, and stem and brown rust on winter wheat by 1.5 kg I/ha, and of late blight of potatoes caused by Phytophthora infestans by 0.4% Dithane M-45 [8018-01-7].
IT **11100-29-1**
RL: BIOL (Biological study)
(**fungicide** effectiveness increase by)

RN 11100-29-1 HCAPLUS
CN OP 7 (Russian surfactant) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT **23564-05-8**
RL: BIOL (Biological study)
(**surfactants** increase of effectiveness of)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



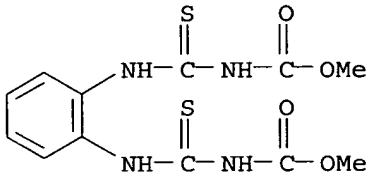
L38 ANSWER 25 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:610269 HCAPLUS
DOCUMENT NUMBER: 89:210269
TITLE: Thiophanate-methyl - control of apple powdery mildew by dormant season spraying - a progress report
AUTHOR(S): Mercer, R. T.; Stevens, C. C.; Beach, B. G. W.; Paul, G. C.
CORPORATE SOURCE: Ongar Res. Stn., May and Baker Ltd., Ongar/Essex, UK
SOURCE: British Crop Protection Conference--Pests and Diseases, Proceedings (**1977**), (2), 369-74
CODEN: PBCDDQ; ISSN: 0144-1612
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



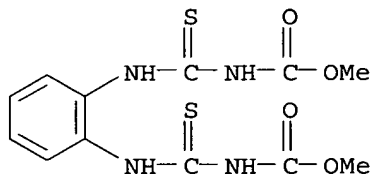
I

AB One dormant season spray of thiophanate-methyl (I) **[23564-05-8]** applied to run-off (2200 L/ha) at 0.1% in combination with 0.5 to 1% of suitable anionic or nonionic **surfactants**, showed promise for the control of primary apple mildew caused by Podosphaera leucotricha in vegetative and fruiting buds. Sprays were applied from the period immediately after harvest pre-leaf fall, until the late dormant period without causing any phytotoxicity the following spring. Attempts to reduce the volume rate applied to 1100 L/ha resulted in poorer disease control. In order to obtain full benefit from dormant season mildew control, protectant cover sprays must commence at the green cluster-pink bud stage.
IT **23564-05-8**
RL: BIOL (Biological study)
(apple powdery mildew control by)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 26 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:437887 HCAPLUS
DOCUMENT NUMBER: 89:37887
TITLE: Bioassays with Penicillium sp. for quantitative determination of **fungicides.** Part II. Determination of methyl thiophanate captan and funaben T, **fungicide** mixture with adjuvants
AUTHOR(S): Moldzynska, B.; Rejman, S.
CORPORATE SOURCE: Res. Inst. Pomol., Skierniewice, Pol.
SOURCE: Fruit Science Reports (**1977**), 4(4), 5-14
CODEN: FSREDB; ISSN: 0137-1479
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A Penicillium bioassay, previously used for the determination of benomyl (ibid., 1977) was applicable for the determination of Funaben T (Carbendazim-TMTD mixture) [63288-44-8] but not for that of thiophanate Me [**23564-05-8**] and captan [133-06-2]. P. variabile was the most suitable test organism. Most adjuvants tested, such as Tween 20 [9005-64-5] increased the activity of the **fungicides.**
IT **23564-05-8**
RL: BIOL (Biological study)
(bioassay for, using Penicillium)
RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



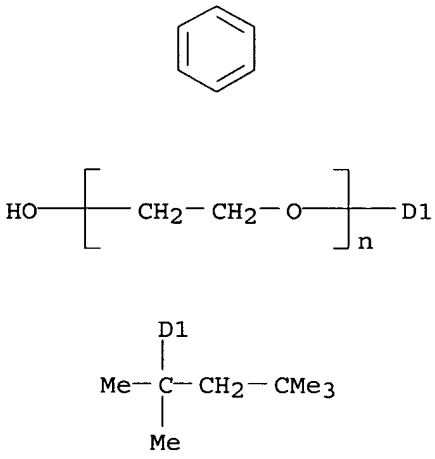
L38 ANSWER 27 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:517643 HCAPLUS
DOCUMENT NUMBER: 85:117643
TITLE: Effects of some **fungicides** on Rhizobium trifolii and its symbiotic relationship with white clover
AUTHOR(S): Fisher, David J.
CORPORATE SOURCE: Long Ashton Res. Stn., Univ. Bristol, Bristol, UK

SOURCE: Pesticide Science (**1976**), 7(1), 10-18
CODEN: PSSCBG; ISSN: 0031-613X
DOCUMENT TYPE: Journal
LANGUAGE: English

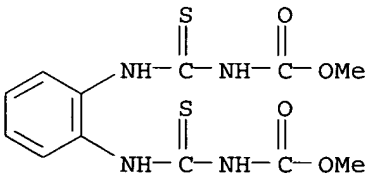
AB Symbiotic N fixation by R. trifolii in root nodules of white clover was affected by thiram [137-26-8], oxycarboxin [5259-88-1], and Ethylan CP [**9036-19-5**], but was unchanged by benomyl [17804-35-2], captan [133-06-2], carbendazim [10605-21-7], carboxin [5234-68-4], dodine acetate [2439-10-3], dimethirimol [5221-53-4], ethirimol [23947-60-6], tridemorph [24602-86-6], triforine [26644-46-2], or thiophanate-methyl [**23564-05-8**] (all 250-500 ppm). Effects of the **fungicides** on growth, O uptake, and total N by R. trifolii were varied, but none of the compds. altered the leghemoglobin content of the root nodules.

IT **9036-19-5 23564-05-8**
RL: BIOL (Biological study)
(nitrogen fixation by Rhizobium trifolii in symbiosis with white clover in response to)

RN 9036-19-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)



RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



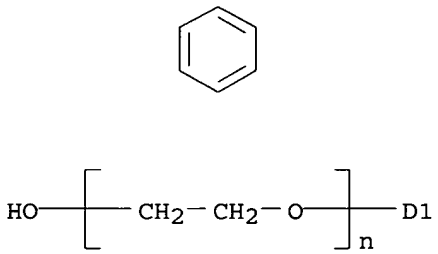
L38 ANSWER 28 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:542830 HCAPLUS
DOCUMENT NUMBER: 83:142830
TITLE: Antisporulant action of **fungicides** against Podosphaera leucotricha on apple seedlings
AUTHOR(S): Sztejnberg, Abraham; Byrde, Robert J. W.; Woodcock,

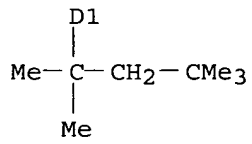
David
CORPORATE SOURCE: Long Ashton Res. Stn., Univ. Bristol, Bristol, UK
SOURCE: Pesticide Science (**1975**), 6(2), 107-11
CODEN: PSSCBG; ISSN: 0031-613X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Of 14 compds. tested for antisporulant activity against P. leucotricha on apple seedlings, benomyl [17804-35-2] (0.025%), thiophanate methyl [**23564-05-8**] (0.05%), pyrazophos [645-78-3] (0.03%), and O,O-diethyl phthalimidophosphonothioate [5131-24-8] (0.04%) gave complete sporulation suppression for 18 days. The **surfactant** Ethylan CP [**9036-19-5**] was transiently antisporulant, and enhanced the antisporulant activity of benomyl.

IT **9036-19-5**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antisporulant activity of, against Podosphaera leucostricha)

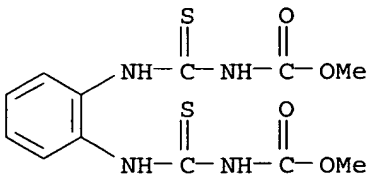
RN 9036-19-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- (9CI) (CA INDEX NAME)





IT **23564-05-8**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(fungistatic activity of, on Podosphaera leucotricha, on apple seedlings)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 29 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:438825 HCAPLUS
DOCUMENT NUMBER: 83:38825
TITLE: Pesticide compositions, chargeable in small volumes
INVENTOR(S): Fulconis, Pierre; Franson, Claude
PATENT ASSIGNEE(S): Procida
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

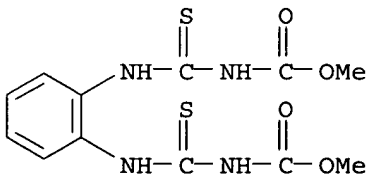
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2417056	A1	19741031	DE 1974-2417056	19740408 <--
FR 2225092	A1	19741108	FR 1973-13209	19730412 <--
CA 1036492	A1	19780815	CA 1974-197166	19740409 <--
NL 7404883	A	19741015	NL 1974-4883	19740410 <--
BR 7402907	A0	19741126	BR 1974-2907	19740410 <--
JP 49134845	A2	19741225	JP 1974-40123	19740410 <--
DK 138776	C	19790417	DK 1974-1995	19740410 <--
DK 138776	B	19781030		
BE 813592	A1	19741011	BE 1974-143091	19740411 <--
HU 167357	P	19750927	HU 1974-PO565	19740411 <--
IT 1004235	A	19760710	IT 1974-50352	19740411 <--
GB 1463008	A	19770202	GB 1974-16094	19740411 <--
CH 594357	A	19780113	CH 1974-5081	19740411 <--

PRIORITY APPLN. INFO.: FR 1973-13209 A 19730412

AB Low-volume pesticide formulations are made of powder phase containing the pesticide and inert carriers, and liquid phase containing **surfactant** and water. The phases are kept sep. and are mixed shortly before use. The powder phase contains maneb [12427-38-2] 200, thiophanate methyl [**23564-05-8**] 100, NH4 lignosulfonate 20 and CaCO3 200 g, and the liquid phase ethylene oxide-nonyl phenol polycondensate 30, mineral oil 350 and water 240 g. The 2 phases are mixed, and applied at 10 l/ha, at a droplet diameter of 100 μ.

IT **23564-05-8**
RL: BIOL (Biological study)
(low-volume formulation containing)

RN 23564-05-8 HCAPLUS
CN Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



L38 ANSWER 30 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:11202 HCAPLUS
DOCUMENT NUMBER: 80:11202
TITLE: Antimicrobial preparations and miticides containing N-[2-(acylamino)phenyl]-N'-acylthiourea
INVENTOR(S): Chiyomaru, Isao; Kawada, Seigo; Kitagaki, Tadaharu; Takita, Kiyoshi

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

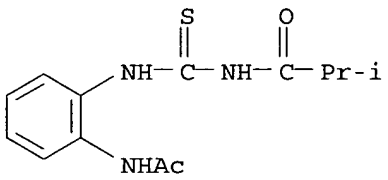
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48056827	A2	19730809	JP 1971-91328	19711115 <--
JP 51015097	B4	19760514		

PRIORITY APPLN. INFO.: JP 1971-91328 A 19711115

AB Antimicrobial prepns. and acaricides containing active agents represented by a general structure I where R1 and R2 = alkyl groups are presented. These compds. have no toxic effect on humans. 2'-(3-Isobutyroylthioureido)acetanilide [**43068-90-2**], diatom earth, talc, and **surfactant** (50, 20, 25, and 5%, resp.) were mixed and powderized. This mixture was diluted with water and sprayed over rice seedlings planted in culture pots. The plants were subsequently sprayed with solns. containing Pyricularia oryzae spores. The number of spots on the leaves which developed due to the inoculation was only 5.6% of the spots found in the untreated controls. In a miticidal test, the 2'-(3-isobutylroylthioureido)acetanilide preparation was diluted with water to make a solution containing 500 ppm of this agent, and bean leaves were immersed into it for 10 sec before inoculation with mites. The mites were exterminated completely within 3 days.

IT **43068-90-2**
RL: BIOL (Biological study)
(acaricides and **fungicides**)

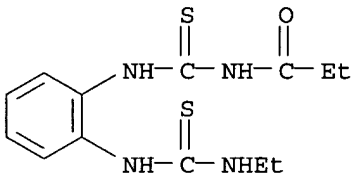
RN 43068-90-2 HCAPLUS
CN Propanamide, N-[[[2-(acetylamino)phenyl]amino]thioxomethyl]-2-methyl- (9CI) (CA INDEX NAME)



L38 ANSWER 31 OF 31 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:835 HCAPLUS
DOCUMENT NUMBER: 80:835
TITLE: Thioureidobenzene derivatives as miticides and antimicrobial agents
INVENTOR(S): Kawada, Seigo; Chiyamaru, Isao; Tabita, Kiyoshi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 48058137 A2 19730815 JP 1971-96406 19711130 <--
PRIORITY APPLN. INFO.: JP 1971-96406 A 19711130
AB Thioureidobenzene derivs. (I, where R1 and R2 = alkyl and X = O or S) are effective miticides as well as antimicrobial agents, and have no toxic effect on humans and domestic animals. Thus, 1-(3-ethyl-2-thioureido)-2-(3-propionyl-2-thioureido)benzene (II) [**43063-92-9**], diatomaceous earth, talc, and Solpol (a **surfactant**) (50, 20, 25, and 5%, resp.) were mixed, powderized, and diluted with water to make a solution containing 250 ppm of the active agent. Spraying 30 ml of this solution over 20 rice seedlings cultured in a pot (9 cm in diameter) prevented the development of rice blight and had no toxic effect on the rice itself. At 500 ppm, II applied to the bean leaves infested with Tetranychus telarius destroyed 96% of these mites within 3 days.
IT **50280-64-3**
RL: BIOL (Biological study)
(acaricides and **fungicides**)
RN 50280-64-3 HCAPLUS
CN Propanamide, N-[[[2-[[(ethylamino)thioxomethyl]amino]phenyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)



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L12 STR
L13 STR
L14 STR
L15 STR
L16 38403 SEA FILE=REGISTRY SUB=L11 SSS FUL L12
L17 8445 SEA FILE=REGISTRY SUB=L11 SSS FUL L13
L18 13078 SEA FILE=REGISTRY SUB=L11 SSS FUL L14
L19 3456 SEA FILE=REGISTRY SUB=L11 SSS FUL L15
L20 60852 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L17 OR L18 OR L19
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L22 57947 SEA FILE=REGISTRY SUB=L20 SSS FUL L21
L23 STR
L24 1581 SEA FILE=REGISTRY SUB=L20 SSS FUL L23
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L28 23 SEA FILE=HCAPLUS ABB=ON PLU=ON L25(L)L27
L29 17 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 AND L28
L30 1043 SEA FILE=REGISTRY ABB=ON PLU=ON SURFACT? OR DILUENT?
L31 342901 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR SURFACT? OR DILUENT?
L32 25 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 AND L26
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L40           61 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L39 OR "CHI PING"/AU
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L42            2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L41 NOT (L29 OR L33)


=> d ibib abs hitstr l42 1-2

L42  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2000:513682  HCAPLUS
DOCUMENT NUMBER:          133:135313
TITLE:                    Preparation of herbicidal oxadiazolidinediones
INVENTOR(S):              Annis, Gary David; Chiang, George Chih-Shu; Forney,
                          David Raymond; Patel, Kanu Maganbhai; Rorer, Morris
                          Padgett; Smith, William Francis, III; Stevenson,
                          Thomas Martin; Sun, King-Mo; Tseng, Chi-Ping
PATENT ASSIGNEE(S):       E. I. Du Pont de Nemours & Co., USA
SOURCE:                   PCT Int. Appl., 394 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 2000043377         A1    20000727    WO 2000-US1283          20000120
         W:  AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE,
             HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK,
             MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN,
             YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2359108            AA    20000727    CA 2000-2359108         20000120
     EP 1147096            A1    20011024    EP 2000-913237          20000120
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     AU 776425             B2    20040909    AU 2000-34717           20000120
     US 6737383            B1    20040518    US 2001-869771          20010629
     US 2004063581         A1    20040401    US 2003-634706          20030804
PRIORITY APPLN. INFO.:                        US 1999-117210P     P   19990125
                                              US 1999-138722P     P   19990611
                                              US 1999-143620P     P   19990713
                                              US 1999-156362P     P   19990928
                                              WO 2000-US1283      W   20000120
                                              US 2001-869771      A3  20010629
OTHER SOURCE(S):          MARPAT 133:135313
GI
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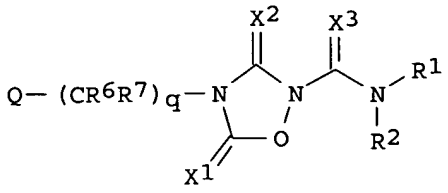

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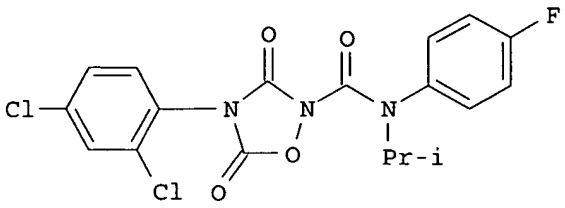


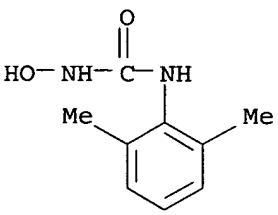
II

AB The title compds. (I) [Q = H, heterocyclyl, (thio)acyl, (thio)carboxy, carbamoyl, alkoxy, amino, sulfamoyl, (un)substituted (cyclo)alkyl, bicycloalkyl, (cyclo)alkenyl, bicycloalkenyl, alkynyl, Ph, or bicycloaryl, etc.; R1 = (un)substituted (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), cycloalkyl, Ph, heterocyclyl, etc.; R2 = (halo)alkyl, cycloalkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), amino, etc.; or R1 and R2 taken together = (CH2)n or (CH2)2O(CH2)2; R6 and R7 = independently H or alkyl; X1 and X2 = independently O or S; X3 = O, S, NH, or N(alkyl); n = 2-5; q = 0-2], their N-oxides, and agriculturally suitable salts were prepared as herbicides. I and compns. containing I were tested extensively for their ability to control undesired vegetation. Thus, II was prepared in a multi-step sequence by reaction of 2,4-dichlorophenylisocyanate with NH2OH•HCl to form the N-hydroxylurea, cycloaddn. with carbonyl diimidazole to give the 1,2,4-oxadiazolidine-3,5-dione, and N-addition of (4-fluorophenyl)propylcarbamoyl chloride (2-step preparation given) in the presence of 4-dimethylaminopyridine. At 125 g/ha in preemergence and postemergence tests, II exhibited 100% control of bedstraw, black grass, morning glory, nutsedge, redroot pigweed, velvet leaf, and other weeds.

IT **286425-16-9P**, N-(2,6-Dimethylphenyl)-N'-hydroxyurea
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of herbicidal 2-carbamoyl-1,2,4-oxadiazolidine-3,5-diones by cycloaddn. of carbonyldiimidazole with N-hydroxylureas followed by N-addition of carbamoyl chlorides)

RN 286425-16-9 HCAPLUS

CN Urea, N-(2,6-dimethylphenyl)-N'-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:713002 HCAPLUS
DOCUMENT NUMBER: 125:328721
TITLE: Preparation of herbicidal heteroaryl-substituted anilides
INVENTOR(S): Petersen, Wallace Christian; Pifferitti, Michael Anthony; Stevenson, Thomas Martin; **Tseng, Chi-Ping**
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 178 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631517	A1	19961010	WO 1996-US3803	19960320
W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9654262	A1	19961023	AU 1996-54262	19960320
PRIORITY APPLN. INFO.:			US 1995-416415	A2 19950404
			WO 1996-US3803	W 19960320

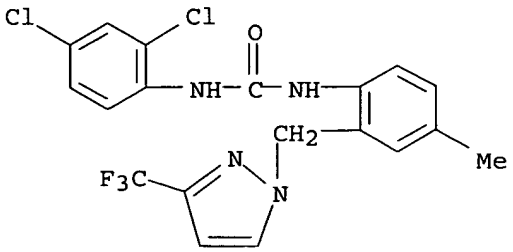
OTHER SOURCE(S): MARPAT 125:328721
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

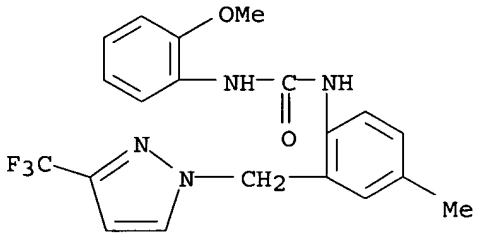
AB The title compds. [I; Q = II, III, IV; T = O, S; X = a single bond, O, S, (un)substituted NH; Y = O, S, CH:CH, etc.; Z, W = CH, N; V = CH, CMe, N; R1 = C1-5 alkyl, CH2(C3-4 cycloalkyl), C3-6 cycloalkyl, etc.; R2, R3 = H, halo, C1-2 alkyl, etc.; R4 = C1-4 haloalkyl, C1-4 haloalkoxy, CN, etc.; n = 0-1] and their oxides, and agriculturally-suitable salts which are useful for controlling undesired vegetation, were prepared Thus, treatment of 5-(trifluoromethyl)-4H-1,2,4-triazole-3(2H)-thione with Na in MeOH followed by addition of 1-(2-amino-5-methylphenyl)-2-chloroethanone, cyclization of the resulting intermediate V with concentrated H2SO4 and reaction of benzamine VI with Me2CHCH2COCl in the presence of Et3N in Et2O afforded I [Q = II; T = O; X = a single bond; Y = S; Z, W = N; R1 = Me2CHCH2; R2 = Me; R3 = H; R4 = CF3] which showed 100% control in preemergence tests carried out on bedstraw, crabgrass, giant foxtail.

IT **183612-48-8P 183612-49-9P 183612-50-2P**
183612-51-3P 183612-52-4P 183612-53-5P
183612-54-6P 183612-55-7P 183612-56-8P
183612-57-9P 183612-58-0P 183612-59-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of herbicidal heteroaryl-substituted anilides)

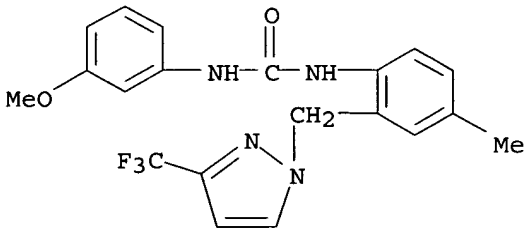
RN 183612-48-8 HCAPLUS
CN Urea, N-(2,4-dichlorophenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



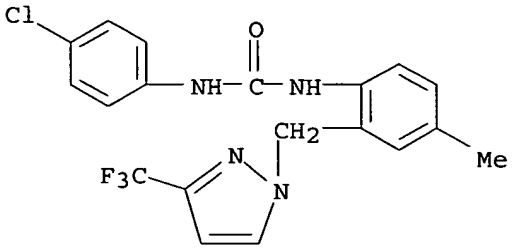
RN 183612-49-9 HCAPLUS
CN Urea, N-(2-methoxyphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



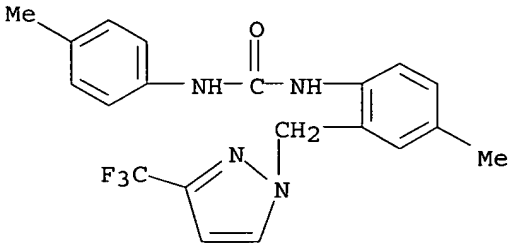
RN 183612-50-2 HCAPLUS
CN Urea, N-(3-methoxyphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



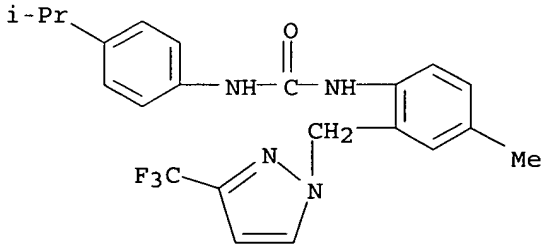
RN 183612-51-3 HCAPLUS
CN Urea, N-(4-chlorophenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



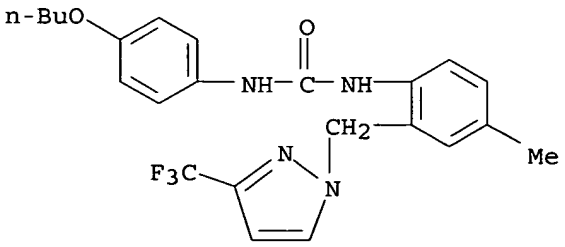
RN 183612-52-4 HCAPLUS
CN Urea, N-(4-methylphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



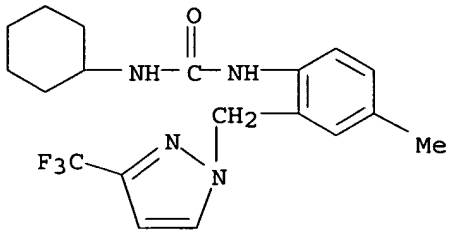
RN 183612-53-5 HCAPLUS
CN Urea, N-[4-(1-methylethyl)phenyl]-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



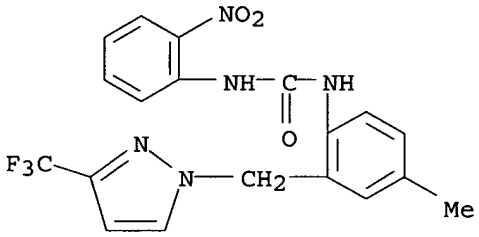
RN 183612-54-6 HCAPLUS
CN Urea, N-(4-butoxyphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



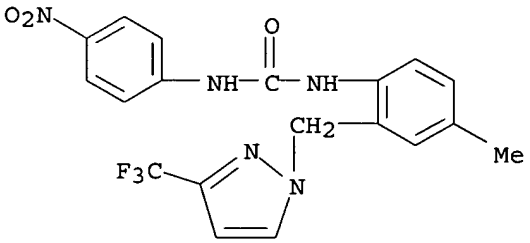
RN 183612-55-7 HCAPLUS
CN Urea, N-cyclohexyl-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



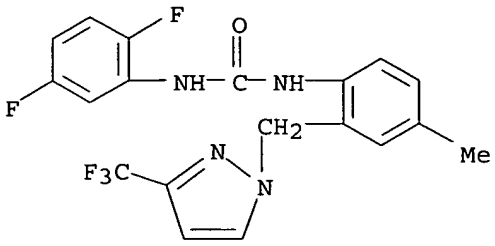
RN 183612-56-8 HCAPLUS
CN Urea, N-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]-N'-(2-nitrophenyl)- (9CI) (CA INDEX NAME)



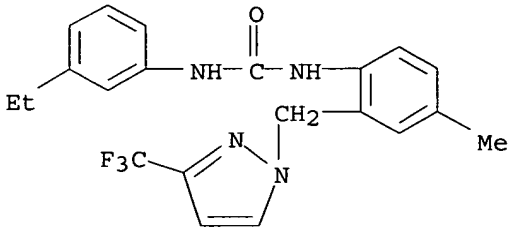
RN 183612-57-9 HCAPLUS
CN Urea, N-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]-N'-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 183612-58-0 HCAPLUS
CN Urea, N-(2,5-difluorophenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



RN 183612-59-1 HCAPLUS
CN Urea, N-(3-ethylphenyl)-N'-[4-methyl-2-[[3-(trifluoromethyl)-1H-pyrazol-1-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)



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